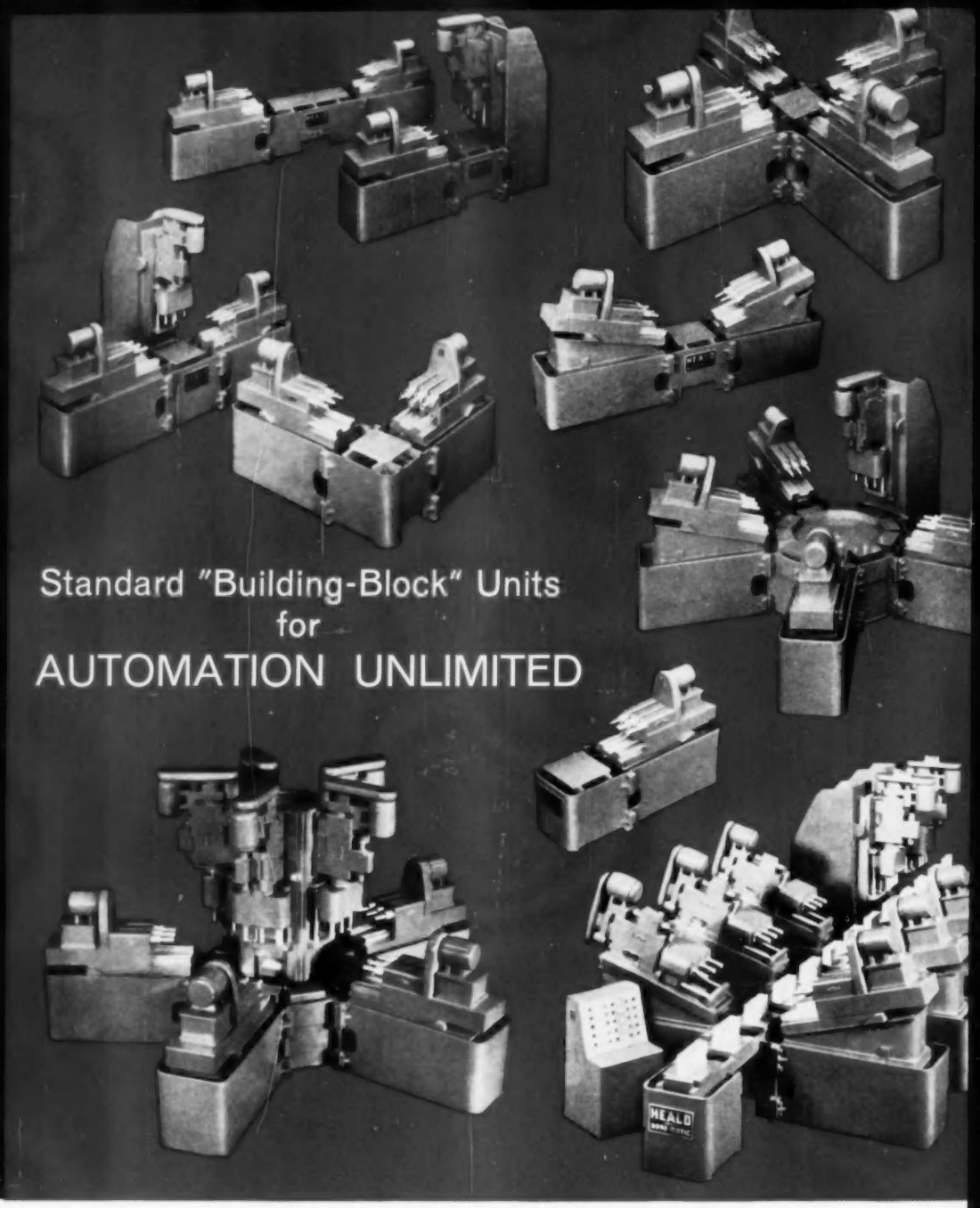
DECEMBER 15, 1960

AUTOMOTIVE INDUSTRIES
A CHILTON PUBLICATION

# THE 1961 PRODUCTS GUIDE

THE PRODUCTION IMPROVEMENT PLANNING SERVICE AND BUYERS' DIRECTORY FOR DESIGN AND PRODUCTION EXECUTIVES

*LISTING PARTS, COMPONENTS, PRODUCTION AND PLANT EQUIPMENT, MATERIALS AND SUPPLIES*




As these scale models show, Heald's new line of standard "building-block" units can be combined in virtually any desired arrangement for single or multiple station automated production equipment. Slide units and Borizers can approach the work vertically, horizontally or at an angle, to perform any desired drilling, boring, reaming, tapping, probing, facing or grooving operations within their range and capacity.

The flexibility of these standard units provides maximum versatility in meeting your specific automation requirements—simplifies even major job changeovers by facilitating retooling, removal, relocation or addition of work stations—and safeguards your investment by substantially reducing losses from obsolescence.

Your Heald engineer will be glad to show you how this "building-block" approach can solve your automation problems from rough to finish.

*It PAYS to come to Heald*

**THE HEALD MACHINE COMPANY**

Subsidiary of The Cincinnati Milling Machine Co.

Worcester 6, Massachusetts

Chicago • Cleveland • Dayton • Detroit • Indianapolis • Lansing • Milwaukee • New York • Philadelphia • Syracuse

HEALD ®

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# Only sheets of steel can endure this annual 50-mile hike

To keep a 100-by-150-foot lawn in trim a power mower churns and chatters more than 50 miles in a single season. A mower needs plenty of strength to stand up under all the hard knocks and vibration!

That's why so many lawnmower parts—handles, housings, decks—are formed from sturdy steel sheets. No cracking, no buckling, no twisting or working loose when parts are made of durable sheets of steel.

So whether your product is a mower or a motor vehicle, you're on solid ground when you design and work with sheet steel. Bethlehem can furnish the sheets you need for the job, in a wide variety of gages, tempers, and surface finishes. And our engineers will be glad to pitch in on your technical problems.

BETHLEHEM STEEL COMPANY, BETHLEHEM, PA.
*Export Sales:* Bethlehem Steel Export Corporation

Steel *for Strength . . . Economy . . . Versatility*

**BETHLEHEM STEEL**

BETHLEHEM STEEL



Circle 103 on Inquiry Card for more data

# How B&W JOB-MATCHED LECTROSONIC* J.I.C. TUBES solve hydraulic fluid line problems

***New J.I.C. Standards approve welded carbon steel tubing for hydraulic fluid lines—and B&W makes such tubing—***

Five quality control checks—including 100% ultrasonic inspection — help assure you maximum dependability from B&W Job-Matched Lectrosonic J.I.C. Hydraulic Fluid Line Tubing. You get:

- . . . a full range of sizes and dimensional exactness and uniformity — matched to your job in every detail
- . . . controlled mechanical properties — to give ease of fabrication and save you installation time
- . . . long, trouble-free service life — even in the most exacting applications

B&W will be glad to help you select exactly the right tube for efficient, economical service. Call your local B&W District Sales Specialist, or write for Bulletin 435 for full information. The Babcock & Wilcox Company, Tubular Products Division, Beaver Falls, Pennsylvania.

*Welded Carbon Steel Tubing

B&W

THE BABCOCK & WILCOX COMPANY

***TUBULAR PRODUCTS DIVISION***

TA-9039-WM3

Seamless and welded tubular products, solid extrusions, seamless welding fittings and forged steel flanges—in carbon, alloy and stainless steels and special metals



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# AUTOMOTIVE INDUSTRIES

A CHILTON MAGAZINE • PUBLISHED SEMI-MONTHLY

DECEMBER 15, 1960

Passenger Cars • Trucks • Buses • Aircraft • Tractors • Engines • Bodies • Trailers • Road Machinery • Farm Machinery • Parts and Components • Accessories • Production and Processing Equipment • Design • Production • Engineering • Management

VOL. 123 No. 12


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# AI Presents . . .

# The Production Improvement Planning Service

THE task of finding new ways to improve industrial communications is one of the most important problems of plant executives in the automotive manufacturing field. It has been reported by one large automobile manufacturer that from 10 to 20 per cent of engineering time is spent in communicating. During visits with plant managers throughout the industry, the editors of AI accepted the assignment of finding a new way to help reduce the time consumed in communicating engineering information and also, increase the availability of new and comprehensive technical data from suppliers.

RESULT is the development and presentation of The Production Improvement Planning Service in this issue. This service consists of the following items: A Production Improvement Planning Chart which is bound into the back of this issue, plus a special mailing to each top manufacturing executive in each of the plants included in the total circulation of this magazine. The special mailing package contains a complete file of "Technical Data Sheets" which are to be used for the purpose of planning production improvements which are made possible by improvement in supplier's products. In addition, the reader has the directory listings of thousands of suppliers in this Products Guide Issue from whom additional data can be obtained.

THIS combination enables any plant manager to plan and fulfill a project of improvement of production operations by taking advantage of the improved materials, equipment, supplies, machine tools, processes and research of the manufacturers who have supplied "Technical Data Sheets" for their products.

THE Master Planning Chart which is bound into this issue provides a convenient sheet on which to itemize the major projects of production improvement which should be completed during the coming year. In the extreme left-hand column there are listed the major generic items of production equipment, tools and supplies, through which the plant manager may wish to undertake a production improvement project. In the vertical columns reading from left to right across this master chart, there are listed the typical steps which would be taken in a typical automotive plant, to complete the analysis of a problem of improving a specific production item.

INDIVIDUAL technical data sheets contained in the special mailing to each manufacturing top executive contain the following categories of information: Specifications of Product Improvement Factors for typical products; Listing of available technical literature; Description of the vendor's engineering, research and technical services; and, complete address and telephone information concerning the supplier's branch offices, agents, distributors and sales representatives. The availability of this comprehensive data, for permanent reference use in the reader's engineering, manufacturing and production standard files, reduces to a minimum the time required by the reader to locate and identify products with factors of improvement important to consider in production planning.

*The Editors of*
**AUTOMOTIVE INDUSTRIES**

# PICK A TERMINAL ANY AMP TERMINAL

## For the world's finest reliability

Teeth-jarring circuit vibration a problem? How about searing temperatures, 1000F° plus? Maybe metal-eating salt spray or corona is your circuit nemesis.

No matter what the problem is or where . . . by specifying AMP, you can pick the exact solderless terminal for your requirements from the broadest line on the market—whether you require the great production speed of an AMP Automachine or the small run productivity of an AMP precision hand tool.

In fact when you specify AMP, you pick the surest route of all to consistent, economical circuit reliability. If you want a better way to design and manufacture your circuits, send for the full story on AMP's solderless termination program.

# AMP INCORPORATED

**GENERAL OFFICES: HARRISBURG, PENNSYLVANIA**

AMP products and engineering assistance are available through subsidiary companies in: Australia • Canada • England • France • Holland • Italy • Japan • West Germany



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# ROILINE V8 for FIRE FIGHTING

The ROILINE H884 is a high compression, overhead valve engine with the advantages of *extra* speed and power. This flexible V-8 is designed for the instantaneous response and quick acceleration necessary to fire fighting equipment. The sturdy forged-steel crankshaft is short, due to V-8 compactness, with large diameter, wide surface bearing areas. The result is smooth operation with the least amount of vibration. The combination of V-8 design, sturdy, compact construction, and quick acceleration makes the ROILINE H884 engine a top performer.

## Model H884

**ADVANCED V-8 DESIGN**
**330 MAXIMUM HP.**
**884 CU. IN. DISPL.**
**DUAL IGNITION AVAILABLE**
**QUICK ACCELERATION**
**GOOD FUEL ECONOMY**
**LOW MAINTENANCE COST**

501

**WAUKESHA MOTOR COMPANY, WAUKESHA, WISCONSIN**
**New York • Tulsa • Los Angeles** / **Factories: Waukesha, Wisconsin and Clinton, Iowa**

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**SCOTT OUTBOARDS** *"Race-Horse Spirit . . . Work-Horse Power"*

# Performance assured with VICTOR sealing

Scott motor owners know the satisfaction of superior outboard power—rocket getaway . . . smooth idling . . . sustained high-speed cruising —with fuel-saving economy!

It was Scott power that set the 1960 outboard endurance run down and up the Mississippi—4153 miles—in 165 hrs., 15 min. (Photo above.)

Sealing specifications play no small part of Scott motor dependability. For maximum power output . . . efficient carburetion and cooling . . . tight lubricant retention and water exclusion . . . heavy emphasis is placed on high-quality gaskets and oil seals.

### Engineered Sealing—a Victor Specialty

For marine power units as for all types of engines, machinery and appliances, Victor sealing assures dependable, economical sealing. In standard gasket and oil seal designs, Victor's complete lines provide the widest selection. For nonstandard needs, 50 years' experience in designing and manufacturing to specification is at your service.

### Write for New Catalogs

Comprehensive engineering catalogs for sealing specifiers are available through your Victor Field Engineer, or by letter request. Please state whether interested in gaskets or oil seals—or both. Victor Mfg. & Gasket Co., P.O. Box 1333, Chicago 90. Canadian Plant: St. Thomas, Ont.

**VICTOR** *Sealing Products Exclusively*

**GASKETS • OIL SEALS • PACKINGS • MECHANICAL SEALS**



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# DON'T MOVE !

## We'll bring STRIPPIT's cost-cutting demonstration to you

Here's the newest STRIPPIT Mobile Demonstrator Unit, equipped with actual operating STRIPPIT metalworking equipment. Every day, throughout industrial America, we welcome aboard scores of production men and company executives for on-the-job proof that the STRIPPIT way is the most efficient and economical way to punch holes.

These men (center) are watching the STRIPPIT Super 30 Fabricator in action, punching out a complex hole pattern from a template mounted on the integral Duplicator. Time studies conducted in customer's plants have shown savings in production time of 60% to 80% over conventional methods.

The STRIPPIT Flex-O-Drill (bottom) eliminates the need for base line drawings and vernier height gage layouts in the production of precision templates and sheet metal layouts. Also on display in the Demonstrator are a variety of STRIPPIT self-contained hole punching units.

One of these Mobile Units is in your part of the country now. Write or call Wales STRIPPIT and ask them to put your plant on the itinerary.

WALES **STRIPPIT** INC.

**242 Buell Road • Akron, New York**

HOUDAILLE INDUSTRIES, INC.

*In Canada: Strippit Tool & Machine Company, Brampton, Ontario*

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# CALENDAR

**OF COMING SHOWS AND MEETINGS**

Society of Automotive Engineers, International Congress and Exposition, Detroit ..... Jan. 9-13

National Motor Boat Show, New York ..... Jan. 14-22

Instrument Society of America, Winter Instrument-Automation Conference & Exhibit, St. Louis Jan. 17-19

29th Annual Meeting, Institute of the Aeronautical Science, New York ..... Jan. 23-25

12th Annual Plant Maintenance & Engineering Show, Chicago Jan. 23-26

Society of Plastic Engineers, Inc., 17th Annual Technical Conference, Washington, D. C.... Jan. 24-27

The Society of the Plastic Industries, Inc., 16th Reinforced Plastic Div. Conference, Chicago ..... Feb. 7-9

American Foundrymen's Society, Wisconsin Regional Conference, Milwaukee ..... Feb. 9-10

Malleable Founders Society, Semi-Annual Meeting, Cleveland.. Mar. 1-2

American Society of Mechanical Engineers, as Turbine Power Div., Co-Sponsored by the Dept. of Defense, 6th Annual Gas Turbine Conference & Show, Washington, D. C..... Mar. 5-9

Instrument Society of America, 11th Annual Conference on Instrumentation for the Iron and Steel Industry, Pittsburgh.. Mar. 8-10

The Steel Founders Society of America, Annual Meeting, Chicago ..... Mar. 11-14

The American Society of Mechanical Engineers, Aviation Conference, Los Angeles..... Mar. 12-16

American Society for Metals, Western Metal Exposition, Los Angeles ..... Mar. 20-24

23rd Annual American Power Conference, Sponsored by Six National Engineering Societies, Chicago ..... Mar. 21-23

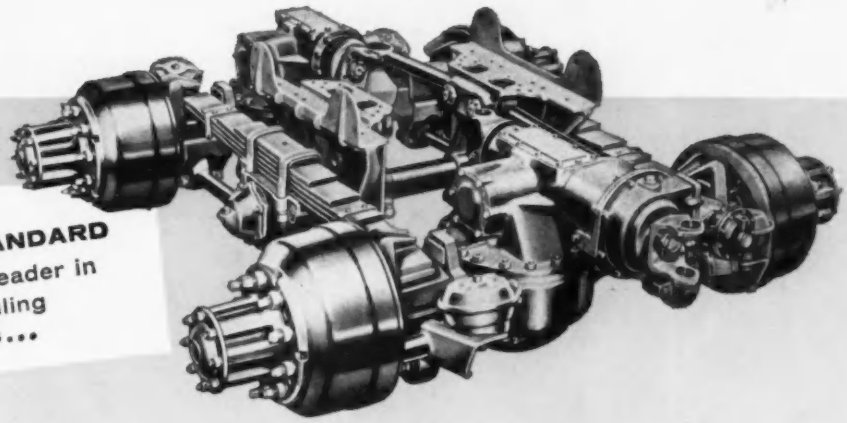
Spring Technical Meeting, Pressed Metal Institute, New York. Mar. 22-24

American Welding Society, 42nd Annual Convention and Welding Exposition, New York.. Apr. 10-21

18th Annual Western Section Conference, Society of the Plastics Industry, Inc., Coronado, Calif. ..... Apr. 20-21

65th American Foundrymen's Society Exposition, San Francisco ..... May 8-12

American Society of Tool & Manufacturing Engineers, 1961 Engineering Conference & Exhibit, New York ..... May 22-26



**ROCKWELL-STANDARD**
Acknowledged Leader in Rugged Hauling Operations...

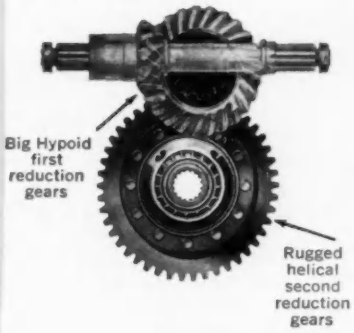
## Here's why Timken-Detroit®

# DOUBLE-REDUCTION TANDEMS LEAD IN TOP PERFORMANCE—LONG LIFE!

Timken-Detroit Heavy-Duty Tandems with Hypoid Helical Double-Reduction Gears are the big favorites for top performance and long life.
Here are some of the reasons why:

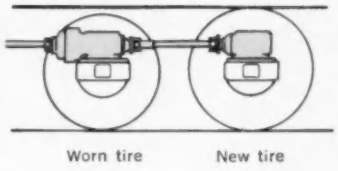
### Rugged Hypoid-Helical Double-Reduction Gearing!

Balanced gearing—with two full-sized gear sets working in series to take an equal share of the load—provides a stronger power train with balanced gear set loadings and the widest range of ratios.



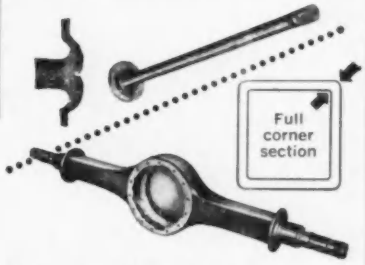

### Driver Controlled Interaxle Differential!

Allows differential action between the axles to compensate for worn or mismatched tires. Both axles do equal amounts of work . . . can be disengaged at any speed, giving positive through drive when better traction is needed. *Straight-Line Through Drive* eliminates prop shaft angularity . . . increases bearing and gear life, reduces maintenance.




### "Torsion-Flow" Axle Shafts and Hot-Forged Housings!

More splines, Torsion-Flow forging, and patented heat-treating processes make Rockwell-Standard shafts the toughest in the industry. Housings are hot-forged from high carbon steel, and are rectangular shaped with full strength corners for greatest strength with minimum weight.




**Timken-Detroit Double-Reduction Tandems come in a wide range of capacities—6 models from 34,000 to 65,000 pounds.**

*Another Product of...* **ROCKWELL-STANDARD CORPORATION**

ROCKWELL R STANDARD ®

Transmission and Axle Division, Detroit 32, Michigan



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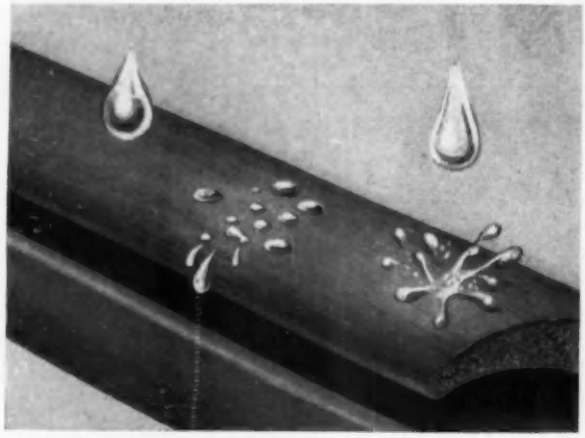
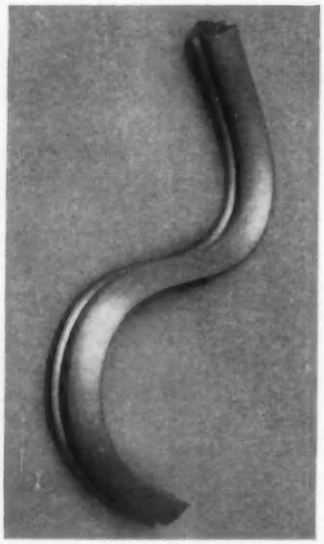
COMPLEX CROSS SECTIONS

WEATHER AND OZONE RESISTANCE



LOW WATER ABSORPTION



TIGHT RADII EASILY TURNED

***EXTRUDED CLOSED CELL***

# NEOPRENE IMPROVES BODY SEALING

Only neoprene closed cell extrusions offer all these proven advantages as a body seal:

Excellent resistance to weather, ozone, aging, sun and oil.

Low water absorption; due to the characteristic closed cell structure, water absorption is held to a minimum . . . eliminates need for a veneer or coating.

Available in a variety of complex cross sections . . . adaptable to any closure design.

Tight radii easily turned without wrinkling.

Extruded closed cell neoprene is already being used effectively as a door and deck lid seal and as a hood lacing. Potential applications include roof rail seals, windlace and other body gasketing applications.

For more information on this new approach to body seal design, write for your free copy of our helpful brochure, EXTRUDED CLOSED CELL NEOPRENE.

E. I. du Pont de Nemours & Co. (Inc.), Elastomer Chemicals Department AI-12, Wilmington 98, Delaware.

DU PONT
REG. U. S. PAT. OFF.

**SYNTHETIC RUBBER**

NEOPRENE HYPALON® VITON® ADIPRENE®

**Better Things for Better Living . . . *through Chemistry***

# CUSTOM-MADE

## Stainless Strip from Allegheny Ludlum

Stainless steel strip problems are solved at Allegheny Ludlum. Excellent forming characteristics, close gauge control, special analyses, color matching, and special finishes are only a few of the plusses A-L offers to solve your problems.

Here are some examples of A-L stainless strip made to solve individual problems:

- Type 430 with low roping quality.
- The economical 200 series . . . line free! And with increased ductility.
- Type 430 with a bright mirror finish, free of gray streaks.
- Type 302 with quality that enables a fabricator to form a coffee percolator in nine draws without an intervening anneal.

Your individual needs will get the attention you want them to have at Allegheny Ludlum. Tell your A-L representative the end use, fabrication procedures, etc., for your strip. He will work with A-L metallurgists, processing engineers, and technical men to give you the best stainless strip, custom made for your use.

Allegheny Ludlum service in stainless strip is backed up by an outstanding record for on-time delivery. Large stocks of hot bands enable A-L to give you quick service on all stainless strip needs. And A-L finished stocks give you quick, even overnight, delivery on many gauges and analyses.

For consistent temper, tolerances, and finish in stainless steel strip, call your Allegheny Ludlum salesman, or write: Allegheny Ludlum Steel Corp., Oliver Bldg., Pittsburgh 22, Pennsylvania. Address Department **AI-12.**

2576

**ALLEGHENY LUDLUM**

EVERY FORM OF STAINLESS . . . EVERY HELP IN USING IT



Circle 110 on Inquiry Card for more data

# There's a Luber-finer Model

## For Every Type of Engine For Every Type of Oil

**STANDARD & OPTIONAL EQUIPMENT ON LEADING TRUCK, TRACTOR & STATIONARY ENGINES**

**MODELS 78, 135-S, 200-S**—single-bolt lid, screw-in type pack, overall compact design. Provide ultimate in filtration for passenger cars, small trucks, tractors — other similar engines up to 5-quart, 6-quart, and 7-quart crankcase capacities.

**MODELS 272-C AND 363-C** — single-bolt lid clamp, O-Ring lid gasket, screw-in type pack, rugged construction throughout. For heavy-duty service on gas, gasoline or diesel engines up to 3-gallon and 4-gallon crankcase capacities.

**MODELS 500-C AND 750-C** — single-bolt lid clamp O-Ring lid gasket, large-capacity packs, extra rugged construction for most severe service. For use on gas, gasoline or diesel engines up to 5-gallon and 8-gallon crankcase capacities. Also on fuel lines, hydraulic oil systems, and other industrial applications.

**MODELS 750-2C AND 750-3C** — single bolt lid clamp, O-Ring lid gasket, multiple packs for extra large capacity. Either wall or floor mounts for industrial use on engines up to 35-gallon sump, fuel lines to 15 GPM, hydraulic oil systems to 450 gals. For larger capacities, two or more Units can be connected in parallel.

**MODELS F-120-C AND F-155-C** — for gasoline and diesel fuel lines on mobile, stationary, or marine applications. Extremely efficient in removing impurities and contaminants from fuel. Single Units handle flow rates from 1.0 to 2.0 GPM on suction or gravity flow. For larger capacities, two or more Units may be connected in parallel.

***AVAILABLE THROUGHOUT THE WORLD***

GENUINE Luber-finer REPLACEMENT PACKS

**DIESELPAK®** For use on H.D. compounded oils for diesel and gasoline engines. Removes finely dispersed contaminants without affecting additives.

- **IMPERIAL** model for extended maintenance schedules (7,000 to 12,000 miles between oil and pack changes). Most economical.
- **REGULAR** model for frequent oil and pack change schedules (4,000 miles to 7,000 miles). Low initial cost.

LUBER-FINER, INC., 2514 So. Grand Avenue, Los Angeles 7, California

**REFINING PACK**
For use on straight mineral oil, synthetic oils, diesel fuel oil, hydraulic fluid, etc.



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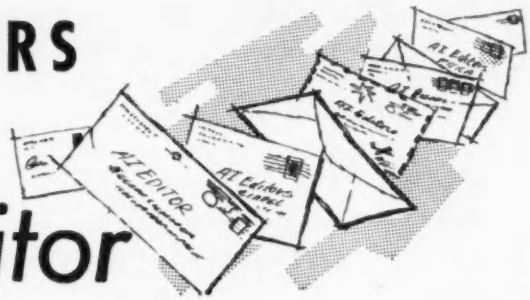
# LETTERS to the Editor




Readers' opinions or requests for additional information on material appearing in the editorial pages of AUTOMOTIVE INDUSTRIES are invited for this column. No unsigned letters will be considered, but names will be withheld on request. Address *Letters to the Editor*, AUTOMOTIVE INDUSTRIES, 56th & Chestnut Sts., Philadelphia 39, Pa.

## PAGEANT OF NEW CARS

Your AUTOMOTIVE INDUSTRIES special car issue is a most distinguished publication. The color work is superb. Congratulations! You can be very proud of your fine issue.

**Seward A. Covert**
**Seward Covert & Associates**
**Cleveland, Ohio**

The October 15 issue of AUTOMOTIVE INDUSTRIES is an excellent edition, and I am very pleased to see the four-color treatment.

**William L. O'Donovan**
**Celanese Development Co.**
**New York, N. Y.**

We have received our copy of your excellent October 15 issue containing photographs of the new cars.

The illustrations are outstanding and we are wondering if they are available in a size suitable for framing.

**C. A. Coffey**
**Enjay Chemical Co.**
**Southfield, Mich.**

● *Sorry, not available—Ed.*

I am showing your October 15 issue of AUTOMOTIVE INDUSTRIES to our editors as an example of a fine publishing achievement. Congratulations.

**C. B. Larrabee**
**ACS Applied Publications**
**Washington, D. C.**

## MILITARY VEHICLES

We, at Ingersoll Division, have always been interested in furthering the available information on military vehicles especially in the amphibious art, and therefore are very happy to offer our comments.

In the current article on Soviet Amphibians, we noted the theme basically encompassed the overall operational characteristics including configuration, general arrangement, payload, basic modes of propulsion, etc., generally summerizing the equipment. Would like to add that this was very well done, and the author as well as the Intelligence Dept. are to be complimented in ferreting out this information. From the analytical design standpont we would like to have seen detailed discussion on some of the specific features such as track design, type of track compensating system, the hydrojet control system on the water steering of the PT-76, etc.

As to a complete compendium of the military vehicles in a comprehensive report, we are all for it.

**R. R. Brezinski**
**Test & Development Manager**
**Ingersoll Div**
**Borg-Warner Corp**
**Kalamazoo, Mich**

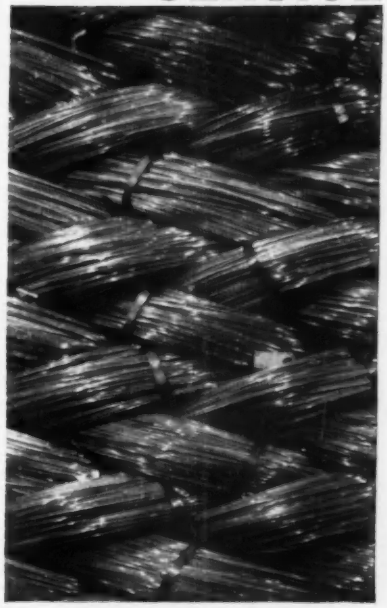
## MAKING PRODUCTION PAY

In your September 1 issue appeared the article "Making Production Pay" by Charles Weinert. This is the writeup you brought to our attention at the NMTBA Exposition. Portions of this article are of special interest to us and we would appreciate your permission to reproduce Table 11, "Added Production Efficiency, Metal-cutting Machine Tools, 1960 Models vs. 1950 Models." This is intended for internal distribution.

**Joseph Ellis**
**Market Promotion Manager**
**Micromatic Hone Corp**
**Detroit 38, Mich.**

● *Permission granted.—Ed.*


WIRE FOR SUDDEN SERVICE



ON SOUTHERN FASTENERS

The wire you see in this photograph will make a multitude of machine screws. This is only a very very small portion of the enormous stock carried in Southern Screw's modern six-acre plant in Statesville, North Carolina. All this stock and all this space means that Southern's manpower, machines and materials are ready to give "sudden service" to your order regardless of its size.

Southern specializes in USA-made fasteners — makes nothing else. This is your guarantee that your fastener problems are Southern's only interest.

If you want sudden service on quality fasteners, plated or plain, Phillips or slotted, standards or specials, get in touch with the Southern Screw distributor, or wire, phone or write to Southern Screw Company, Telephone: TRiangle 3-7213, Statesville, N. C.

WAREHOUSES:
New York • Chicago • Dallas • Los Angeles

Machine Screws & Nuts • Tapping Screws • Stove Bolts • Drive Screws Carriage Bolts • Continuous Threaded Studs • Wood Screws

Southern SCREW COMPANY STATESVILLE • NORTH CAROLINA

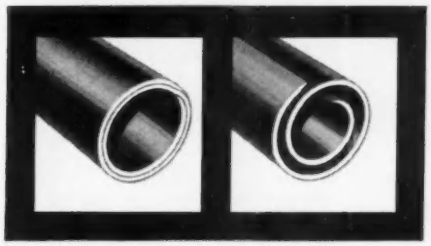
Circle 112 on Inquiry Card for more data

# Bundy can mass-fabricate practically anything

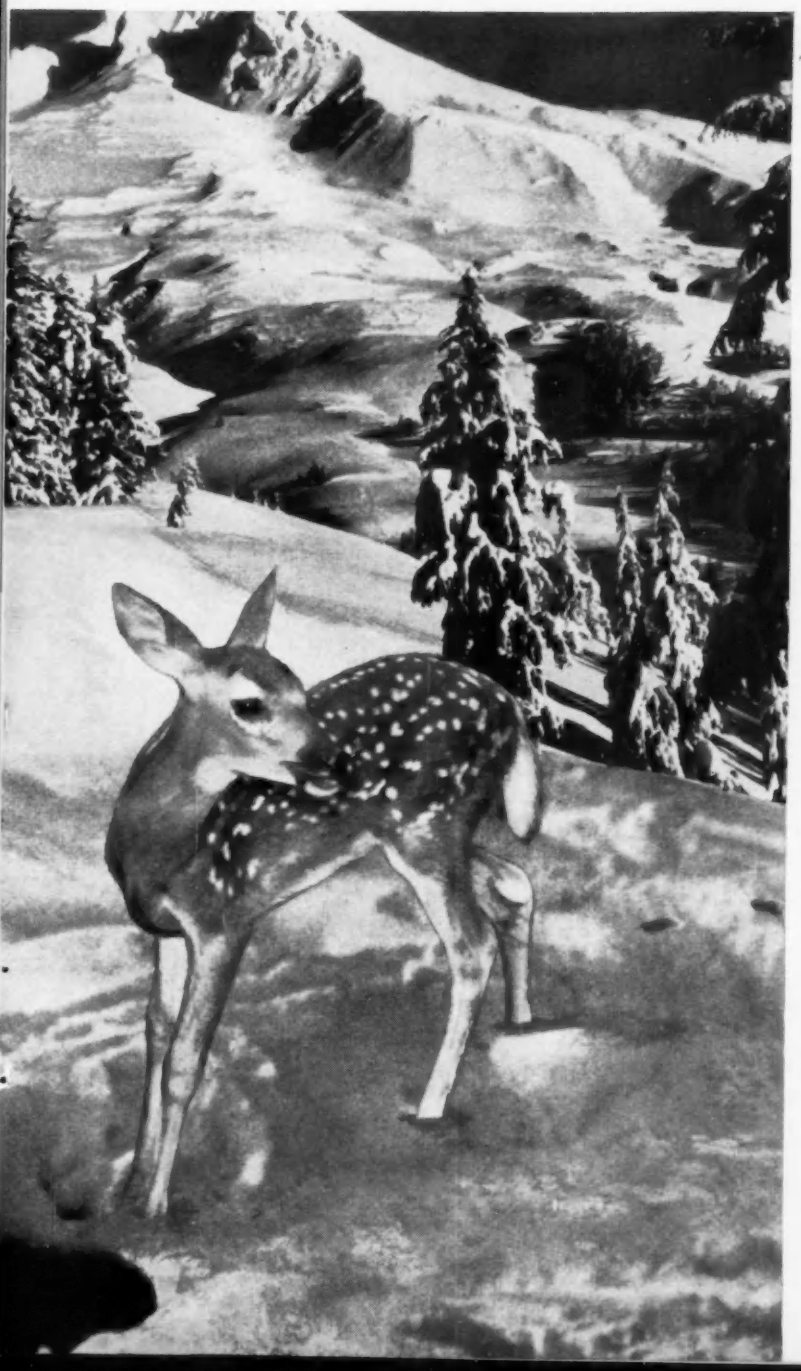
If you use tubing that requires fabricating—anything from simple bends to special forming and machining—it will pay you to talk to Bundy®. Many of these mass-fabricating operations have been developed by Bundy especially for automotive use, and one of them may solve a difficult tubing problem for you. Your parts will be mass-fabricated from Bundyweld, the leakproof *double-walled* steel tubing. Bundyweld has long been the safety standard of the automotive industry and is covered by ASTM 254; and Govt. Specification MIL-T-3520, Type III. Can Bundy help you? Phone, write, or wire: Bundy Tubing Company, Detroit 14, Michigan.

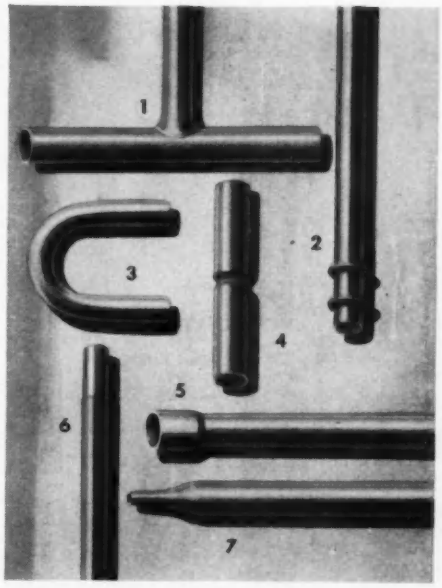
**BUNDY TUBING COMPANY • DETROIT 14, MICH. • WINCHESTER, KY. • HOMETOWN, PA.**

World's largest producer of small-diameter tubing. Affiliated plants in Australia, Brazil, England, France, Germany, Italy, Japan.



Bundyweld, double-walled from a single copper-plated steel strip, is metallurgically bonded through 360° of wall contact. It is lightweight and easily fabricated . . . has remarkably high bursting and fatigue strengths. Sizes available up to 5/8" O. D.






Small-diameter tubing components mass-fabricated by Bundy may be the answer to your design problem. The Bundyweld tubing shown above is: (1) saddled and soldered, (2) double-beaded, (3) bent to minimum radius, (4) grooved, (5) expanded, (6) precision-ground, (7) swaged.

# BUNDYWELD® TUBING

Circle 113 on Inquiry Card for more data

# CONTINUOUS PERMA-GROOVE

# Performance Superiority at Economical Cost

## The "Long-Life" Piston with Cast-Anchored Steel Top Ring Section

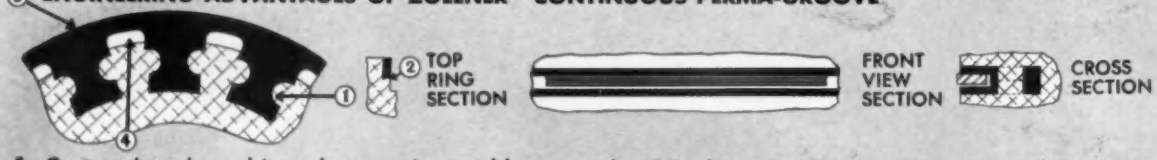
Design adaptable to any type piston

**Superbly Engineered**

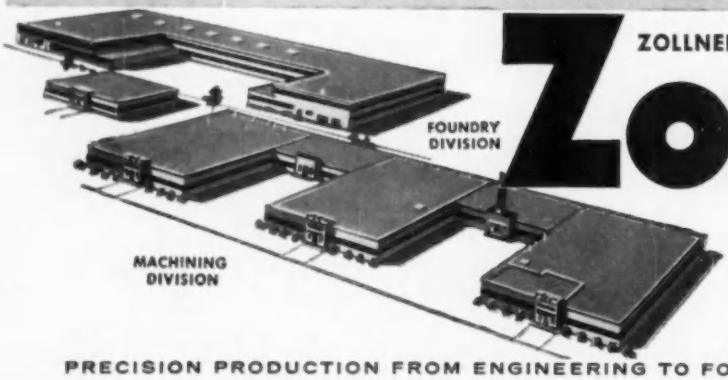
- ★ FOR HIGHEST WEAR RESISTANCE
- ★ FOR COOL OPERATION
- ★ FOR MINIMUM OIL CONSUMPTION
- ★ FOR MINIMUM WEIGHT INCREASE
- ★ FOR ECONOMICAL COST

We suggest an immediate test of these advantages for your engine.

**③ ENGINEERING ADVANTAGES OF ZOLLNER "CONTINUOUS PERMA-GROOVE"**




1. Cast-anchored—no bimetal expansion problem.
2. Dovetailed edges keep insert securely in place.
3. 100% steel bearing area for wear resistance.
4. 40% aluminum bearing area exposed for heat conductivity and cool operation.
5. Light in weight.




ZOLLNER CORPORATION • FORT WAYNE, IND.

# ZOLLNER

## HEAVY DUTY PISTONS

PRECISION PRODUCTION FROM ENGINEERING TO FOUNDRY TO FINISHED PISTONS



Circle 114 on Inquiry Card for more data

Circle 115 on Inquiry Card for more data ⟶

an education in itself—

# "The gleam of Stainless Steel"

displayed at your favorite store

Superior

STAINLESS STRIP STEEL

As one in the metals fabricating business—whether design, production or purchasing—you'll have a special interest in the stainless products for the home now featured at your leading store. The eye-opening promotion of variety, beauty and utility in stainless home products today is doubly impressive to the man who sees the technical accomplishments behind the glamor. • Many of the pieces will have been crafted from SUPERIOR Stainless Strip Steel—chosen for uniform highest quality in every coil. Specify it safely for your strictest demand.

SUPERIOR STEEL DIVISION

OF

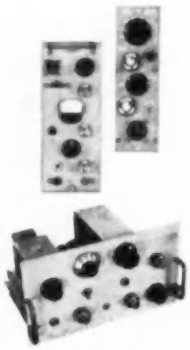
COPPERWELD STEEL COMPANY

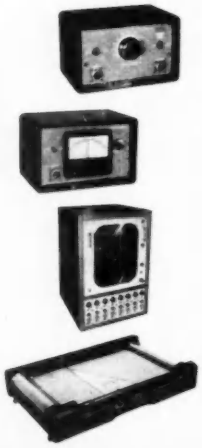
CARNEGIE, PENNSYLVANIA

For Export: Copperweld Steel International Company, New York

# FLEXIBLE "BUILDING BLOCKS" FROM SANBORN

## meet YOUR oscillographic recording needs





### INPUTS

**INTERCHANGEABLE PLUG-IN PREAMPS**

**"850", "350", "150" STYLE**

Carrier . . . Phase Sensitive Demodulator . . . DC Coupling . . . Low Level types

**"350", "150" STYLE**

400 cycle Frequency Deviation . . . Logarithmic types

**"150" STYLE**

AC-DC . . . AC Wattmeter . . . RMS Volt Ammeter . . . Frequency Meter . . . Stabilized DC . . . Triplexer types

**SINGLE-CHASSIS 6- OR 8-CHANNEL AMPLIFIERS**

"950" series high and low gain types . . . "650" medium gain type for Sanborn or other optical recorders.

### FREQUENCY RESPONSE (WRITING METHOD)

**DC TO 150 CPS** with heated stylus traces on rectangular coordinate charts.

**DC TO 5000 CPS** with new "650" optical instant readout recorder.

**X-Y RECORDING** at writing speeds up to 2500"/sec with the Model 670 optical X-Y recorder.

### PACKAGING NO. OF CHANNELS

**PORTABLES** - single channel, 21-lb "brief case" systems — either DC amplifier (Model 299) or AC strain gage amplifier (Model 301).

**MODEL 320** separate DC amplifiers, 4-speeds, 50 mm wide channels.

**RACK-MOUNTED** 2-channel Model 297 system with plug-in preamps. Mounts in 10½" rack space or separate portable case.

**1- TO 16-CHANNEL MOBILE SYSTEMS**—"150", "350" and "850" series with plug-in preamps . . . "950" system with 6- or 8-channel amplifier . . . "650" system with 6- or 8-channel amplifier and optical recorder.

### ACCESSORIES

Chart Viewer . . . 8-channel, 17" Monitoring Oscilloscope . . . Monitor Meter . . . Phase Shifter . . . 4- to 32-channel event recorders.

### TRANSDUCERS

For Linear displacement — Linearsyn, Miniature "probe-style" units . . . Linear velocity — LVsyn, many standard or special models . . . small, single-ended or differential pressures — 267, 268 Series.

**Complete details of Sanborn recording instruments are available from Sanborn Sales-Engineering representatives located in principal cities throughout the United States, Canada and foreign countries . . . or write**

**SANBORN COMPANY — INDUSTRIAL DIVISION**

**175 WYMAN STREET, WALTHAM 54, MASS.**



Circle 116 on Inquiry Card for more data

Circle 117 on Inquiry Card for more data →

**Tapping Heads**

**10 and 11**

**Operational**

On this 23 station Greenlee automatic transfer machine being built for a prominent truck maker to machine cylinder heads, GREENFIELD taps were on the job way back here during test runs on the assembly floor.

When buying machine tools, it's smart to choose a reliable tool supplier to work along with your machine builder. Then you'll know on delivery that your tools as well as the machine are truly operational.

**GREENFIELD TAP & DIE** GREENFIELD, MASS.

LOOK FOR THE DIAMONDS—SIGN OF FINISHING QUALITY

# NOW—3

# ISOBRITE® COPPER PLATING PROCESSES

**to fit your operations, your production and cost needs.**

## ISOBRITE® COPPER #607-622 FULL BRIGHT

**Best for high-speed, full-bright finish on zinc die castings, steel, brass or bronze.**

**CONSISTENT MAXIMUM BRILLIANCE**—Primary agent suppresses burning, secondary agent operates well in medium and low current density area; both contribute to overall brightness.

**COMPLETE COVERAGE**—Covers extremely well in low current density areas. Ideal for parts requiring deep throw; produces plate in deep recesses comparable to buffed areas.

**ECONOMY**—Plates uniformly over high and low current density areas to save on copper consumption. Easy analysis for brightener level.

## ISOBRITE® COPPER #623 GENERAL PURPOSE

**Ideal for shops with varied operations. Gives full or semi-bright plate on zinc base die castings, steel, brass or bronze.**

**EASY-TO-USE**—A single addition agent for rack or barrel plating. Easily controlled for desired brightness level.

**HIGHLY ECONOMICAL**—Use as semi-bright at half the cost of full bright solutions.

**VERSATILE**—Easily buffed to cover wheel marks. Also brightens well in areas not easily accessible to buffing. Use in rack or barrel plating operations.

## ISOBRITE® COPPER #625 BUFF BRIGHT

**Produces a very soft plate for quick buffing.**

**A COMPLETELY ORGANIC SYSTEM**—No metallic constituents.

**VERY ECONOMICAL**—Works well over wide variations of temperatures and concentrations.

**EXCELLENT FOR STOP-OFF**—Produces plate that resists penetration by heat-treating or case hardening.

**VERSATILE**—Use in cyanide solutions with or without tartrates, Rochelle salts or proprietary substitutes.

**These Isobrite Copper Processes contain no lead and are ready to work as soon as current is turned on, even after week-end shut downs. This means increased production and substantial savings by eliminating poorly plated rejects.**

### *Auxiliary Addition Agents for Added Efficiency and Economy*

**ISOBRITE #630** Aids anode corrosion for greater efficiency and produces finer grained deposits.

**ISOBRITE #631** Chrome reducer. Wide range of operation. Forms no undesirable breakdown products.

**ISOBRITE #627-W** Wetting agent. Non-ionic surface agent with low-foaming action.

**ISOBRITE #628-W** High detergency type wetting agent for severe organic contamination. All our wetting agents are easily cleaned from parts to give good nickel adhesion.

**See your Allied Field Engineer for complete information and recommendations for the specific process that best meets your requirements. He's listed under "Plating Supplies" in the yellow pages. Or, write for FREE TECHNICAL DATA FILES.**

*Allied Research Products, Inc.* 4004-06 EAST MONUMENT STREET • BALTIMORE 5, MARYLAND
BRANCH PLANT: 400 MIDLAND AVENUE • DETROIT 3, MICHIGAN
*West Coast Licensee for Process Chemicals: L. H. Butcher Co. • European Agent: Styre Granberger, Storgatan 10, Stockholm, Sweden*

*Chemical and Electro chemical Processes, Anodes, Rectifiers, Equipment and Supplies for Metal Finishing*

IRIDITE® Chromates | IRILAC® Coatings | ISOBRITE® Brighteners | ARP® Supplies | WAGNER Equipment

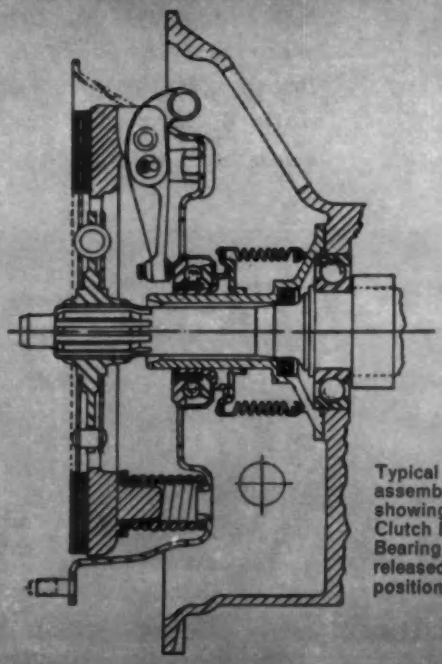


Circle 118 on Inquiry Card for more data

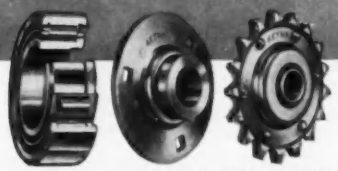
# Aetna
CLUTCH RELEASE BEARINGS

## 1,500,000 DE-CLUTCHINGS
## Prove Longer Service Life—Silent Operation

Under every type of operating condition, Aetna Clutch Release Bearings have proved their dependability. Actual abusive breakdown tests of up to 1,500,000 de-clutchings have established Aetna's unmatched superiority in life expectancy; smooth, silent, trouble-free operation; and greater lubricant retention ability. It's no wonder then that over 50% of America's major producers of mobile vehicles specify Aetna Clutch Release Bearings as standard equipment. For complete information, call your local Aetna representative listed in your classified telephone directory, or write for General Catalog and Engineering Manual.



Typical clutch assembly showing Aetna Clutch Release Bearing in released position.



**AETNA BALL AND ROLLER BEARING COMPANY**
DIVISION OF PARKERSBURG-AETNA CORPORATION

4600 SCHUBERT AVE.
CHICAGO 39, ILL.

ANTI-FRICTION SUPPLIERS TO LEADING ORIGINAL EQUIPMENT MANUFACTURERS SINCE 1916



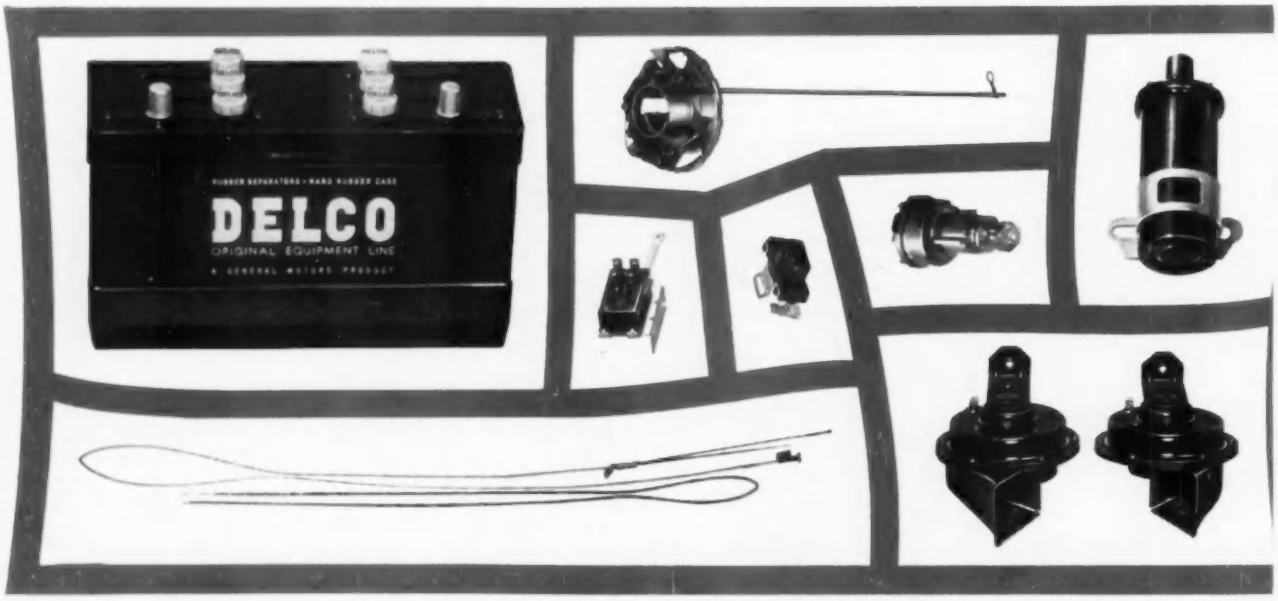

Circle 119 on Inquiry Card for more data

**Corvair by Chevrolet**

**Tempest by Pontiac**

# ...electrical systems

Delco-Remy systems provide electrical energy for the needs of motion in General Motors new size cars, too. Special electrical systems were developed by Delco-Remy working closely with Chevrolet, Pontiac, Buick and Oldsmobile. In all four new cars, these lighter units deliver the same kind of reliable high performance that has been built into Delco-Remy electrical systems for over fifty years.



**Special by Buick**

**F-85 by Oldsmobile**

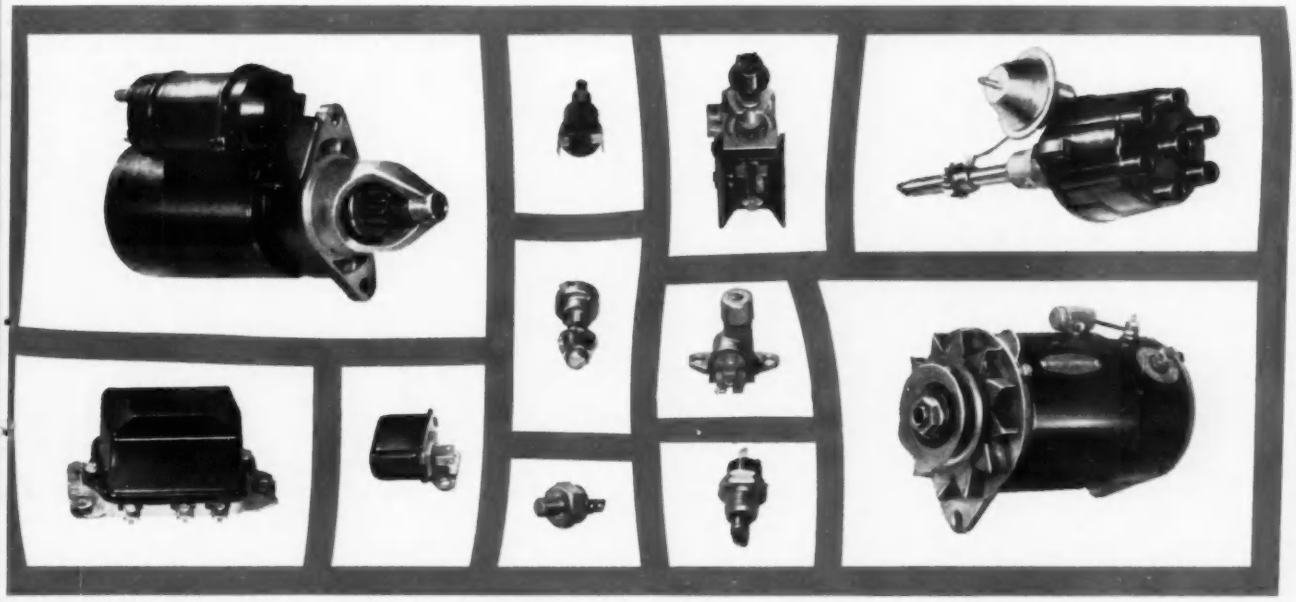
# by Delco-Remy

Delco-Remy equipment for the Corvair, Tempest, Special and F-85 includes • Generators • Regulators • Cranking Motors • Distributors • Ignition Coils • Horns • Flexible Cable Controls • Directional Signal and Control Switches • and Delco Batteries.

## Delco-Remy electrical systems

From the highway to the stars

DIVISION OF GENERAL MOTORS, ANDERSON, INDIANA





Circle 120 on Inquiry Card for more data



Circle 121 on Inquiry Card for more data→

LOOK TO

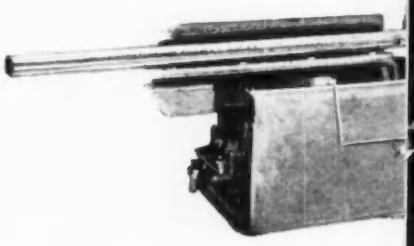
McKAY

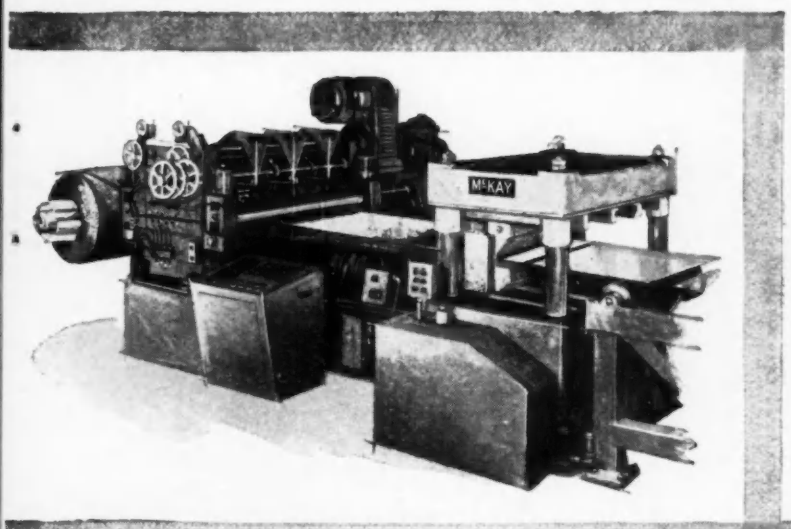
McK

MACHINE

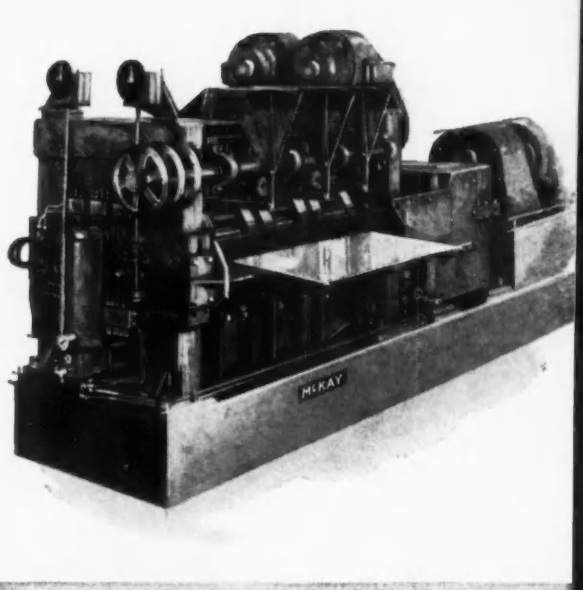
FOR PROGRESS IN METAL PROCESSING

McKAY PIPE MILLS






McKAYMATIC* DIE SHEAR LINES



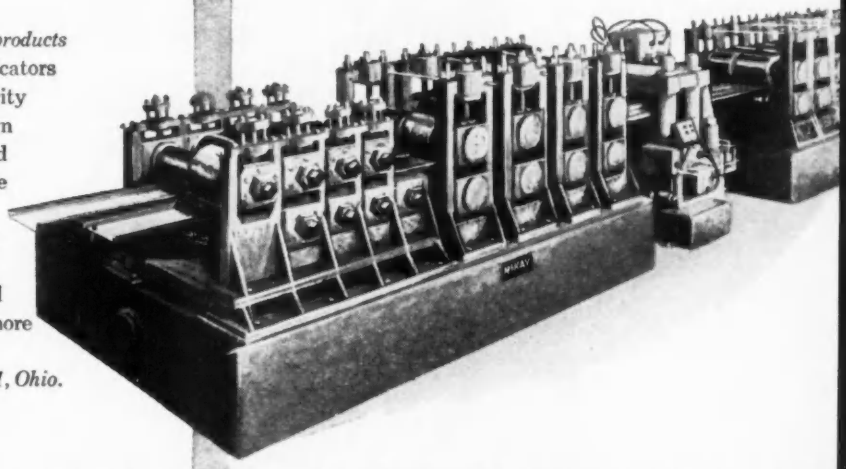

McKAY ROLLER LEVELERS

*No machine manufacturer puts more into its products than does McKay.* Metal producers and fabricators have learned they can expect and get integrity and honest value—the most advanced design and engineering—the finest construction and service—when they specify McKay Machine metal processing equipment.

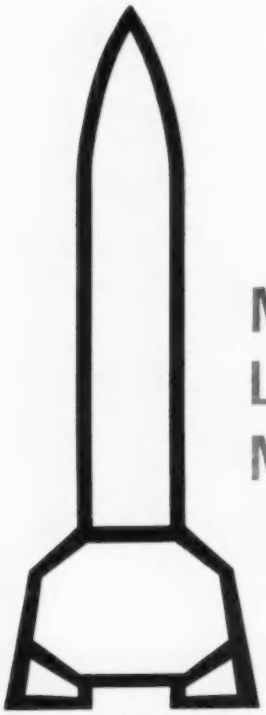
Look to McKay Machine in 1960 for more automatic machines, like those illustrated here, well conceived and skillfully developed to help you do your work faster, better and more economically than ever before.

*The McKay Machine Company, Youngstown 1, Ohio.*

*TM




McKAYMATIC* FORMING MILLS



# MISSILE LAUNCHER MADE MOBILE-LIGHT, TAKEOFF-TOUGH WITH

# N-A-XTRA

## HIGH-STRENGTH STEEL

A battlefield might be anywhere. Wherever it is, there may be a need for the new 10,000-pound, 36-foot Sperry-Rand U.S. Army Sergeant missile. That's why the launching station on which the missile is assembled, aimed and fired must be light enough to be transported by land, sea or air. Yet it also has to be rugged and strong enough to assure the launcher's availability for subsequent firing.

N-A-XTRA steels meet all the conditions of light weight, high strength and impact resistance. Pound for pound, they're nearly three times stronger than mild carbon steel. They are used, not only in this mobile missile launcher, but in many other defense products and in commercial equipment such as earth-moving vehicles, heavy machinery and pressure vessels.

Fabrication qualities are an N-A-XTRA bonus. Even at extreme subnormal temperatures, they remain tough and readily weldable. Conventional methods—cold forming, gas cutting, shearing and machining—give superior results, too. For further information, write Product Development Department, Great Lakes Steel Corporation, Detroit 29, Michigan.

N-A-XTRA

A PRODUCT OF

**GREAT LAKES STEEL**

**Detroit 29, Michigan**

*Quenched and tempered* N-A-XTRA, *the best low carbon extra-strength alloy steels you can buy, are available in four levels of minimum yield strength, from 80,000 to 110,000 psi. They are tough at normal and subnormal temperatures and can be readily and reliably welded. Sizes range from ⅛" to 1" thick, up to 72" wide and up to 35' long.*

Steel

*Look for the STEELMARK on the products you buy; place it on the products you sell.*

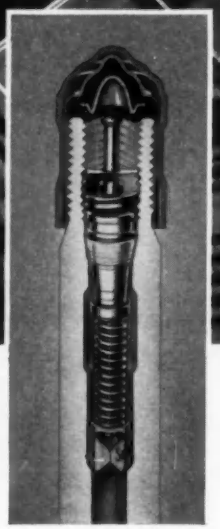
**Great Lakes Steel is a Division of NATIONAL STEEL CORPORATION**



Circle 122 on Inquiry Card for more data

*The American Automotive Industry—the world's*

# Millions of American vehicles—air



AIR CONTROL Since 1844

*Highest quality in vast quantity, possible only in America, enables millions of Schrader tire valves to match millions of tires in superb performance.*

*greatest enterprise—depends on tire accomplishments*

# suspended by American tires and valves—world's top bargain

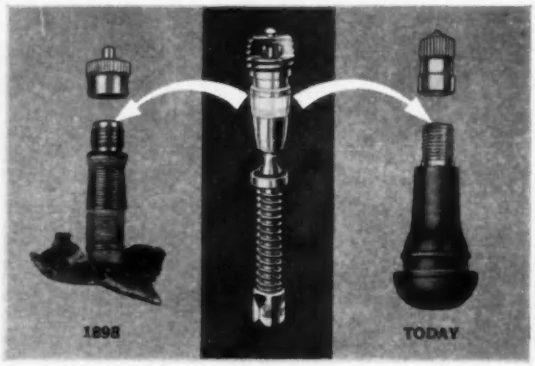
No vehicle is better than its weakest part. And yet the American automotive industry can offer vehicle, tire and tire valve mass production unmatched anywhere else in the world. America's unique capability is to mass produce thousands of different parts, each of which matches every other in superb quality. Here lies the secret of the world's most successful industry.

Mass production of high quality is never achieved over night. The Schrader Tire Valve's operating principle, for example, has been called the Ace of Standardization for excellent reason. The history of these valves parallels the history of tires and pneumatic-equipped vehicles, right back to their very beginnings. Modern Schrader valves not only match the performance of today's tires and vehicles, but are being designed to match projected performance of the future, on or off the road.

**QUALITY CONTROL PROGRAMS** are basic in all Schrader facilities, and are so successful that tire valve performance is taken for granted on Schrader-equipped vehicles the world over.

American vehicles' reliable components like Schrader tire valves offer astonishing quality for amazingly little money—the biggest bargain in the long run.

**INDUSTRY-WIDE COOPERATION** is the hallmark of America's Automotive, Tire and Tire Valve Industries. For decades these efforts have been mutually beneficial, profitable and progressive.




**MODERN SCHRADER VALVE CORE** with the "Miracle-Material," Teflon, is totally interchangeable in all standard tire valves ever made.

**A. SCHRADER'S SON · BROOKLYN 38, N. Y.**
*Division of Scovill Manufacturing Company, Incorporated*

**Schrader**® a division of **SCOVILL**

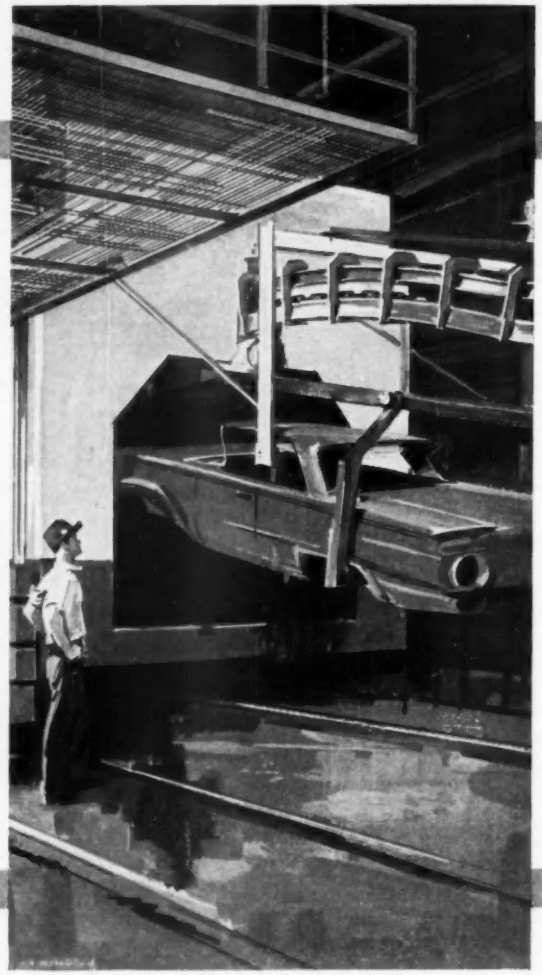
FIRST NAME IN TIRE VALVES

FOR ORIGINAL EQUIPMENT AND REPLACEMENT



Circle 123 on Inquiry Card for more data

# Automotively speaking... AMCHEM SPEAKS YOUR LANGUAGE!



Amchem service in automotive phosphating processes goes far beyond the sale of chemicals.

For instance, the Amchem "Technical Service Report" developed over 13 years ago has been adopted as virtually a standard form among leading automotive manufacturers. This monthly report incorporates all pertinent chemical and equipment performance data in one convenient form, has manifold advantages in keeping local and district management informed of line conditions for chemical control and maintenance, produces higher levels of quality through extra vigilance in controlling chemical baths and equipment.

In the past Amchem service has achieved significant advances in automotive prepaint finishing, among them—Deoxidine, the first corrosion-proofing treatment for use in mass production of steel automobile bodies; the first spray process for rust-proofing steel; and Granodine, the spray phosphating process that has become the accepted standard in industry.

Amchem has spent a lifetime (all 46 years of its corporate existence) providing phosphating services to the automotive field. If your requirements embrace more than phosphating chemicals alone, look to Amchem's Metal Protection Laboratories where, automotively speaking, we speak your language!

## AMCHEM PRODUCTS, INC.

(formerly American Chemical Paint Co.)
AMBLER, PA.

Detroit, Mich., St. Joseph, Mo., Niles, Calif., Windsor, Ont.

Amchem, Granodine and Deoxidine are registered trademarks of Amchem Products, Inc.



Circle 124 on Inquiry Card for more data

# MEET THE NEWEST MEMBER OF A FAMOUS STEEL FAMILY...

# USS "T-1" TYPE-A STEEL

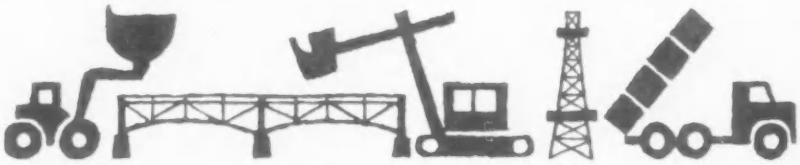
Since its introduction in 1953, USS "T-1" Steel has become one of the world's best known steels. Its extraordinary strength, toughness, weldability and resistance to impact abrasion have increased service life of equipment as much as ten times. No other steel has equaled "T-1" Steel's record of success.

The new USS "T-1" Type A Steel is the first addition to this family of constructional alloy steels. It is a quenched and tempered constructional alloy steel produced in thicknesses through 1″ maximum with the same tremendous strength, weldability and resistance to impact abrasion as "T-1" Steel. However, through the development of a new analysis, "T-1" Type A Steel is a *more economical* steel for many applications.

USS "T-1" Type A Steel was developed through U. S. Steel's continuous research efforts to produce new and better products at the lowest possible cost. It is available in bars and semi-finished form and in plates from 3/16″ through 1″ thick inclusive, and in the full range of plate widths and lengths now available in USS "T-1" Steel. If extra hardness is needed, USS "T-1" Type A Steel can be furnished to a minimum Brinell hardness of 321.

For your copy of a properties card on USS "T-1" Type A Steel, write United States Steel, 525 William Penn Place, Pittsburgh 30, Pennsylvania.

*USS and "T-1" are registered trademarks*



**SUGGESTED APPLICATIONS:** Earthmoving and mining equipment, building construction, bridges, truck frames and bodies, missile transporters and launchers, oil field rigs and machinery transporters—wherever great strength, weldability, toughness, and resistance to impact abrasion are needed to build equipment stronger, lighter and more durable.

## USS "T-1" Type A Steel Mechanical Properties and Chemistry

1. Produced in gages up to 1″, inclusive.
2. Sold to the following chemistry: †

| | | | |
|---|---|---|---|
| C | .12/.21 | Cr | .40/.65 |
| Mn | .70/1.00 | Mo | .15/.25 |
| P | .040 Max.* | V | .03/.08 |
| S | .050 Max.* | B | .0005/.005 |
| Si | .20/.35 | Ti | .01/.03 |

3. Quenched and Tempered to meet the following mechanical properties:

| | 3/16″ to ¾″ incl. | Over ¾″ to 1″ incl. |
|---|---|---|
| Min. Yield Strength | 100,000 psi | 100,000 psi |
| Tensile Strength | 115,000/135,000 | 115,000/135,000 psi |
| Elongation in 2″ | 18% min. | 16% min. |
| Reduction of Area | 40% min. | 50% min. |

4. Charpy impact values**
   15-foot-pounds at minus 50°F. based on longitudinal keyhole test.
5. This steel can also be produced to a min. BHN of 321, and when so produced, all other mechanical properties are waived.
6. Atmospheric corrosion resistance—at least two times that of structural carbon steel.

*When ordered to FBQ (Fire Box Quality) max. P is .035 and max. S is .040.

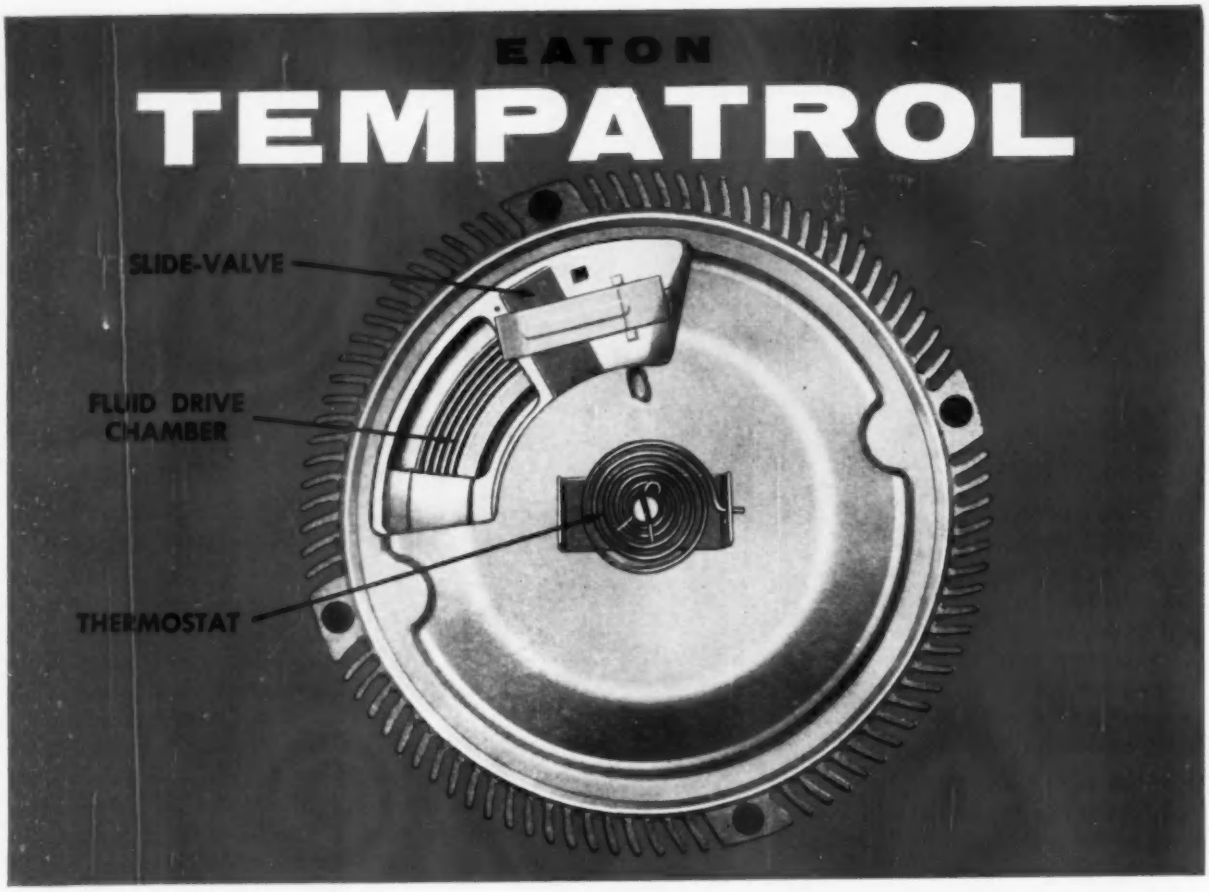
**Applies only to FBQ

†U. S. Patent No. 2858206

**United States Steel Corporation—Pittsburgh**
**Columbia-Geneva Steel—San Francisco**
**National Tube—Pittsburgh**
**Tennessee Coal & Iron—Fairfield, Alabama**
**United States Steel Supply—Steel Service Centers**
**United States Steel Export Company**

**United States Steel**

This mark tells you a product is made of modern, dependable Steel.




## Temperature Regulated Fan Drive Increases Usable HP—Reduces Fan Noise

HOW TEMPATROL WORKS: When under-hood temperature is below the thermostat setting, slide-valve is closed; fluid-drive chamber is empty; the fan idles.

With a rise in under-hood temperature above the thermostat setting, slide-valve opens; fluid enters viscous drive chamber, increasing fan rpm to a pre-determined limit for adequate cooling.

- When cooling is not required, the thermostatic unit causes the fan to idle, thereby increasing net engine output.
- With the Tempatrol Drive engaged, adequate cooling can be achieved at low engine speeds. The top fan speed is controlled to a pre-determined maximum to avoid excessive noise.
- Operational ranges can be established to suit the requirements of each vehicle.

Eaton Tempatrol Fan Drives are readily adaptable to existing installations with only minor changes. They are now operating efficiently on leading motor vehicles. Consult with our engineers on your fan drive needs.

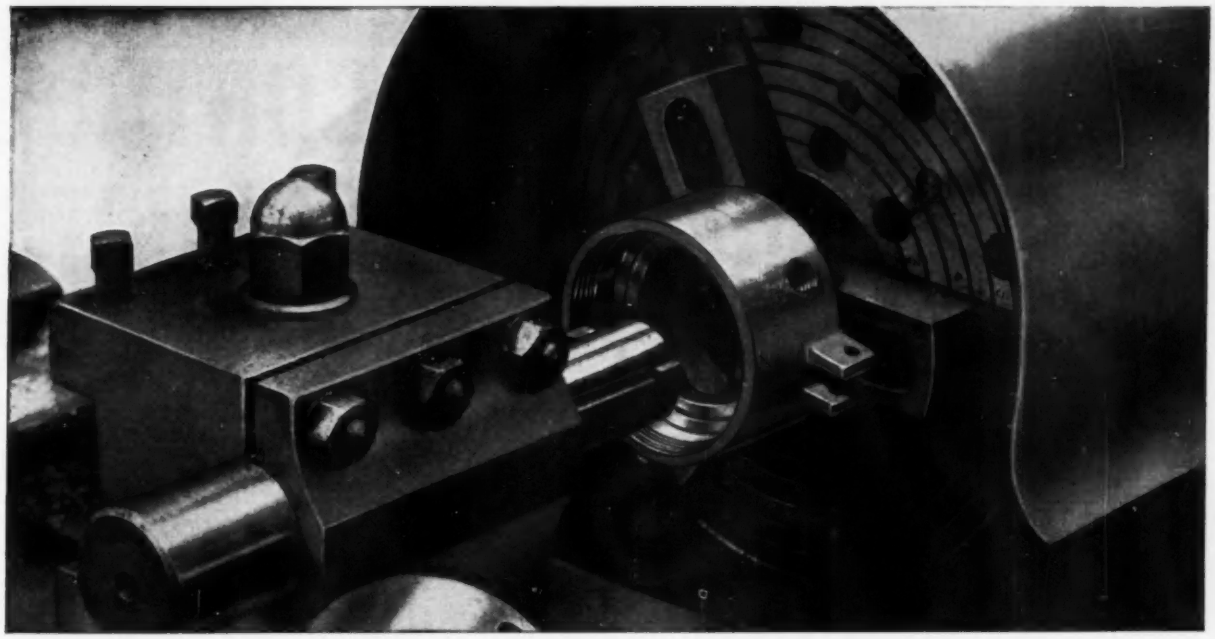
**TORQATROL** is the torque-regulated version of the Eaton Viscous Fan Drive (without thermostatic control). At low engine rpm, the fan operates at driven speeds. As engine speed increases, the viscous drive slips, limiting the maximum fan speed. Maximum fan speed limit can be raised or lowered to suit the needs of specific installations.

*Tempatrol and Torqatrol are fan drive units in the family of Eaton Visco-Drives.*

**EATON**

PUMP DIVISION
MANUFACTURING COMPANY
9771 FRENCH ROAD • DETROIT 13, MICHIGAN

Circle 125 on Inquiry Card for more data



# Threaded in just 6 seconds on a Gisholt CRI-DAN

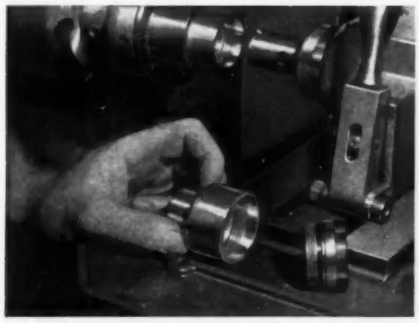
Here's a good example of what you can do on a Gisholt CRI-DAN Threading Lathe—an internal thread, 2 3/16" diameter x 1/4" long, 12 t.p.i., cut in a phosphor-bronze bearing housing in just six seconds.

**Speed and versatility obsolete other methods.**

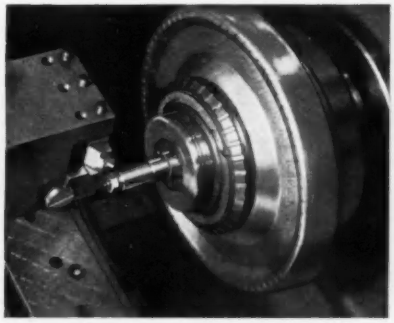
Note the other jobs shown—the variety of work and the fast threading times. Simple on a CRI-DAN—yet, each presented problems that could only be solved at high cost using any other method.

**It's Cri-Dan for highest quality, lowest cost.**

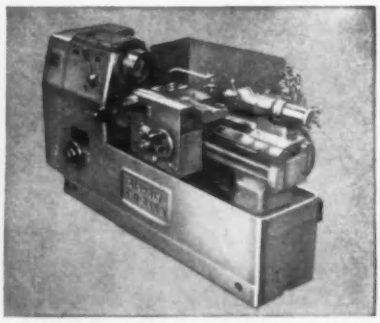
The jobs shown here prove that close tolerance and high-quality finish requirements are met easily on the CRI-DAN. The CRI-DAN method, using an inexpensive single-point carbide tool, is faster and less costly than thread grinding or thread milling.



20 seconds—Zoom operating sleeve for movie camera; aluminum; I.D. pilot dia. bored; tool indexed for threading a 2-start, .0625-pitch, .125"-lead, Class 4 16NS thread in the 1.610" center section.



15 seconds—spinning roller; stainless steel; 18 t.p.i. thread on 5/8" diameter for 7/8" length.



**GET THE FACTS—NOW!** Two models are available—both are capable of handling high-production work or a wide variety of short-run jobs. Change-over averages ten minutes. Write for our catalog—or ask your Gisholt Representative for complete details.

**GISHOLT® MACHINE COMPANY**
**Madison 10, Wisconsin**

**Investigate Gisholt's Extended Payment and Leasing Plans**

**Turret Lathes • Automatic Lathes • Balancers • Superfinishers • Threading Lathes • *Factory-Rebuilt Machines with New-Machine Guarantee***

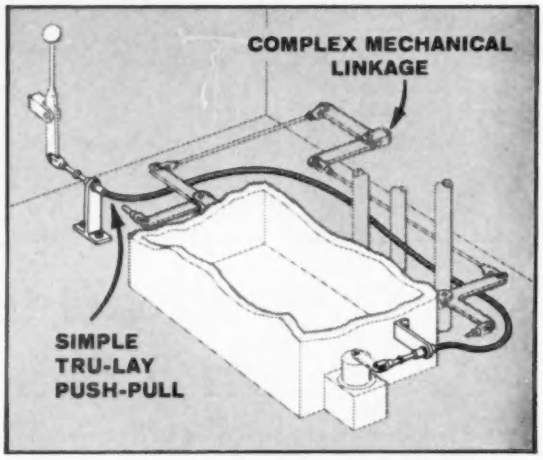


Circle 126 on Inquiry Card for more data

# ACCURATE REMOTE CONTROL FOR HUNDREDS OF PRODUCTS

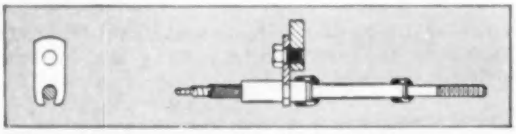
## — — with Tru-Lay *PUSH*-PULL Controls

If your products involve remote control—electrical, hydraulic, pneumatic or direct—TRU-LAY PUSH-PULL FLEXIBLE CONTROLS can help solve your design problems. They provide positive remote control over short or long distances—up to 150 feet from the control point. Because they operate while flexing, they can snake around obstructions. They will not buckle. They are ruggedly constructed, easily installed and operated, sealed against dirt and moisture, and will handle jobs with as much as 1,000 lbs. input. PUSH-PULL CONTROLS are simple, have but one moving part, are noiseless and give a lifetime of accuracy. Mechanical linkages, on the other hand, are complex. Unlike PUSH-PULL CONTROLS, they are made of many parts, wear at many points, and produce increased backlash, vibration rattles and lost accuracy.

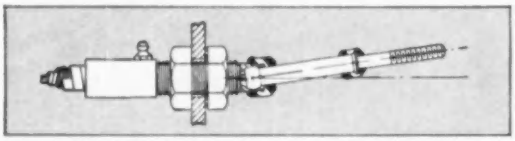



## THESE FEATURES HELP SOLVE DESIGN PROBLEMS

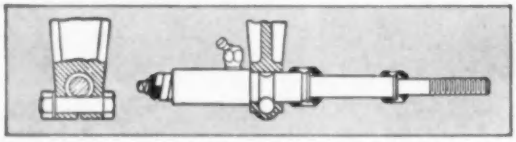
### Anchorages



**Clip anchorage** • a simple clip for light loads

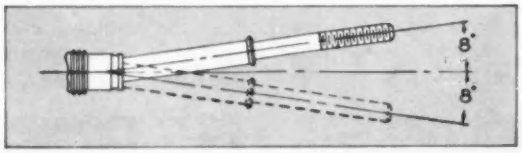


**Bulkhead anchorage** • for heavy-duty installations



**Machined bracket anchorage** • can be furnished for mounting any PUSH-PULL cable at the swivel terminal

### Swivel Action




Standard assemblies have end fittings with a swivel movement of ± 8° to compensate for misalignment and rise or fall of lever arms. Swivel joints, and the sliding ends, are sealed against dirt and moisture.

**PUSH-PULL DATA FILE SHOWS HOW TO SIMPLIFY, IMPROVE DESIGN**

• Write for your PUSH-PULL Data File. It contains a complete set of engineering bulletins which describe in detail the operation of PUSH-PULL CONTROLS, their applications, features and advantages.

ACCO

# PUSH-PULL CONTROLS

**Automotive and Aircraft Division • American Chain & Cable Company, Inc.**

601-H Stephenson Bldg., Detroit 2

6800-H East Acco Street, Los Angeles 22 • 929-H Connecticut Ave., Bridgeport 2, Conn.

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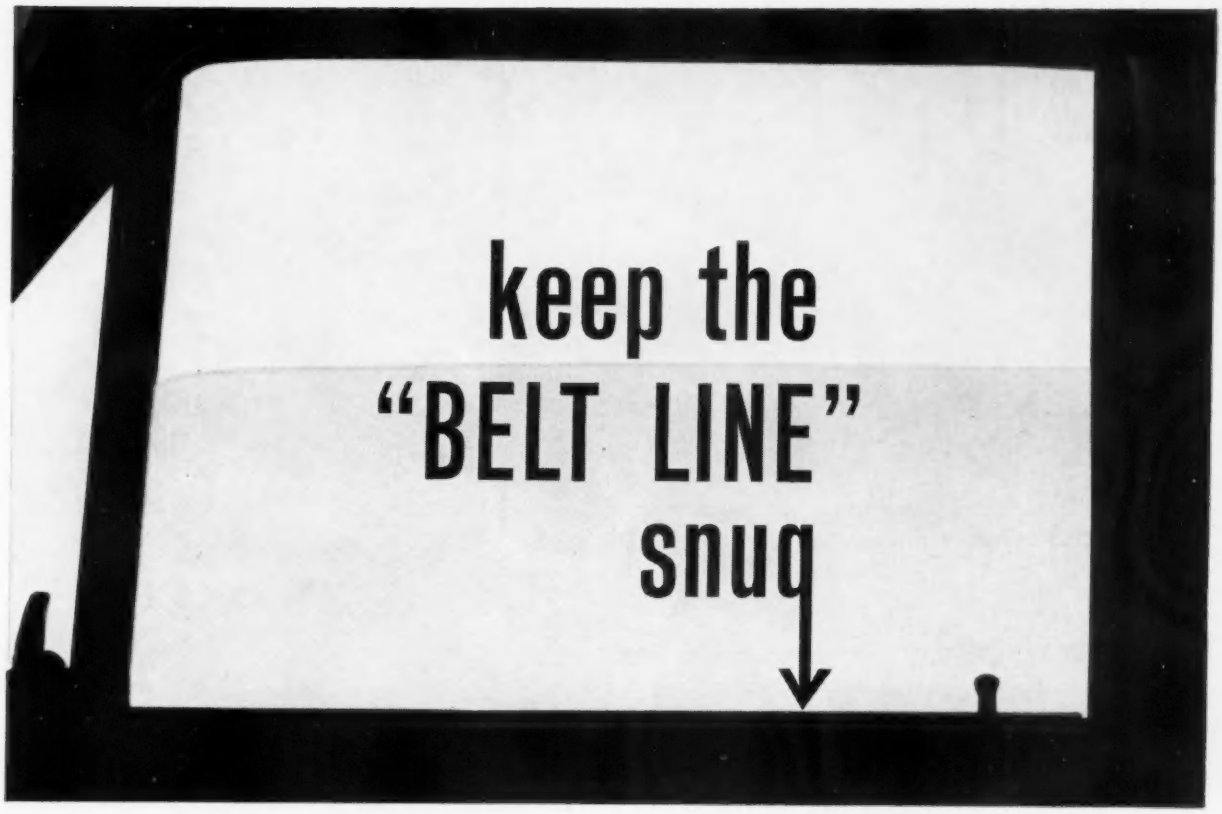



# with the right woven pile from Schlegel

Here, at the "belt line" of a modern automobile window, a weatherstrip must snuggle closely against the glass, sealing out dust and moisture. But the seal can't be so tight that the glass doesn't move easily.

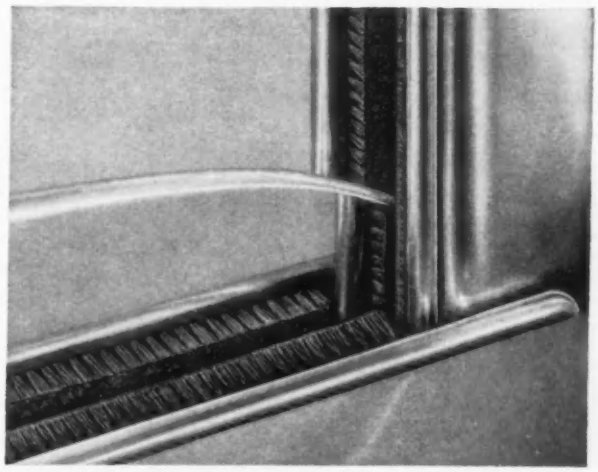
This is where you need the extra resilience of Schlegel weatherstrip pile.

See how the individual strands of yarn in Schlegel pile bend against the glass surface? Their natural resilience keeps the glass firmly in place, holding an effective seal for the life of the automobile. It compensates for even the widest manufacturing tolerances.

The pile you see is uniformly dense throughout and it stays dense to keep its sealing qualities for years. It's almost impossible to wear out.

To you, the extra quality we build into Schlegel pile means easier window movement; rattle-free, trouble-free windows; better sealing qualities—and complete dealer and customer satisfaction.

See what Schlegel woven pile can do for you. Check a sample in your wear-testing lab. When you specify glass run channel or belt strip assemblies, be sure to specify Schlegel woven pile liner—favorite of the industry since glass windows were first used in cars.



Glass moves friction-free, wet or dry, in this glass run channel with Schlegel woven pile liner.

**Schlegel**

***SERVING THE AUTOMOTIVE INDUSTRY***

**SCHLEGEL MANUFACTURING COMPANY**

**1555 Jefferson Rd., Rochester 23, N. Y.**

**In Canada: Oakville, Ontario**



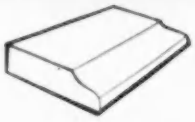
Circle 128 on Inquiry Card for more data

(Inland "job-tailored" Cold Rolled Sheets)

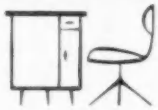
# SURFACE

In a dancer, this is a visual quality. In Inland Cold Rolled Sheets, characteristics of surface are far more complex—"tailor-made" for your specific manufacturing operation, plant equipment, and for the function of your end product.

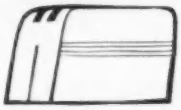
For example, the sheet surface for the fabrication of an automotive floor pan must hold enough die lubricant to permit the draw to be made speedily and efficiently. In electrostatic painting, a too-rough surface may raise costs by holding an excess of paint. A too-smooth surface may create its own problems. For plating, painting, improved die practice, for a host of manufacturing techniques, different surfaces are often required, *and for each—Inland supplies the exactly-right Cold Rolled Sheet!*



Inland Cold Rolled Sheets assure oven hoods a smooth surface that finishes to a lustrous gleam—give a competitive edge so necessary in today's market.



Steel office furniture units made of Inland Cold Rolled Sheets have smooth surfaces, and the attractive utility that helps clerical efficiency.



Because toaster shells require an excellent surface for chrome plating, it's only natural so many are made of Inland Cold Rolled Sheets.

INLAND

**INLAND STEEL**

**30 West Monroe St., Chicago 3, Ill.**

Sales Offices: Chicago • Davenport • Detroit • Houston • Indianapolis • Kansas City • Milwaukee • New York • St. Louis • St. Paul



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# NEWS

Vol. 123, No. 12 Dec. 15, 1960


# '61 Farm Machine Upturn

## Deere President Expects 5 Pct. Sales Rise

**By C. B. Campbell, News Editor**

● *Exclusive to Automotive Industries* ●

Farm machinery sales in 1961 should rise five or six per cent William A. Hewitt, president of Deere & Co., told Automotive Industries last week.

"At current and anticipated levels of gross national product, only a major recession could reduce significantly consumer demand for farm products," Mr. Hewitt said. "Cash receipts from farm marketings plus government payments will reach higher levels this year than were anticipated a year ago. Instead of declining from 1959 it seems probable that they will be about $34.2 billion, slightly more than the $33.8 billion recorded last year.

A more optimistic outlook was expressed by Samuel W. White, Jr., president of Oliver Corp., wholly-owned subsidiary of the White Motor Co. He expects that anticipated increases in farmer replacement buying and new capital outlays will account for a five to 10 per cent rise in agricultural equipment sales.

### Weather Is Factor

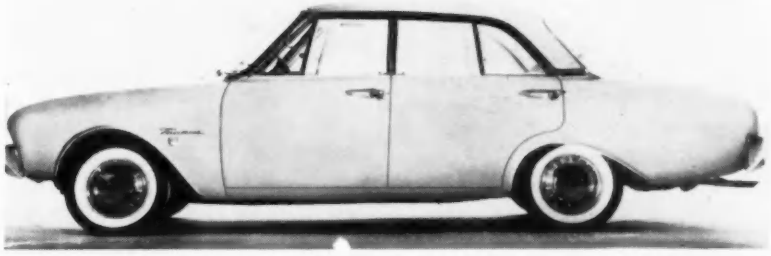
"First estimates for 1961 indicate that cash receipts will be about $33.9 billion, a scant one per cent lower than in 1960. The weather will continue to be a major determinant of the actual outcome. Of great importance to the short-run trend of the farm machinery industry are the good fall weather this year which has permitted timely gathering of a record harvest and the resulting relative optimism of farmers. To this must be added the fact that government farm programs for 1961 already have been established and it seems likely that any changes the new administration may make probably will not be a major consideration until the late. part of 1961.

"Farm assets have declined slightly and appear likely to do so again in 1961 largely because of an easing of farm real estate prices. This does not directly affect the annual cash flow of most commercial farms which are the backbone of the farm machinery industry's market.

### 'Moderate Improvement'

"The net effect of these factors to which should be added an apparently improved inventory position for the farm machinery industry as a whole indicates a mod-

**NEWEST GERMAN FORD IS LONGER, LOWER**



**Taunus 17M for 1961 has low-drag body with wrap-over windshield blended into the flat roof, curved side windows to minimize air turbulence, and bumpers merged with rounded front and rear panels. It is 200 lb lighter than previous model. Optional 91.4 and 103.6 cu in. engines are mated with either three or four-speed synchronized gearbox. Sealed bearings eliminate chassis greasing.**

erate improvement in industry sales in 1961, perhaps in the area of five or six per cent.

"Our own sales also will be influenced by the need to build dealer stocks of our new model tractors and should increase at a somewhat faster rate. Our initial production schedules have been established on the basis of these conclusions."

Mr. White said the bad weather last spring, low commodity price levels and uncertainty about future government farm policies contributed to a "wait and see" attitude on equipment buying by many farmers. With a hope for more normal weather and no present indication of revolutionary farm prices, many farmers are likely to revert to their usual buying habits, Mr. White believes.

He said Oliver's product engineering program is being stepped up to meet the need for high-efficiency, high-capacity equipment on farms that are decreasing in number and increasing in size.

"We have instituted our biggest program ever in sales assistance to dealers and distributors and in expansion and improvement of service for farm and construction equipment users," he concluded.

# Higher Farm, Construction Equipment Sales Expected in '61 by Ford, I-H, Caterpillar

Improved sales of farm equipment machinery in 1961 are seen by Merritt D. Hill, vice president and general manager of Ford Motor Co.'s Tractor and Implement Div.

Mainly responsible for his outlook, Mr. Hill said, were prospects for better spring weather and a more optimistic farmer outlook regarding income.

"We at the Ford Motor Co. Tractor and Implement Div. look to 1961 as a year of improvement in our industry," Mr. Hill said. "Compared to 1960, which saw a decline of about 10 per cent in retail tractor sales and lesser declines in the movement of most implements, the outlook for 1961 is considerably brighter.

### Optimistic on Income

"Among the encouraging factors for increasing activity is the prospect for better spring weather than in 1960 and a far more optimistic farmer outlook regarding income.

"We have accepted the challenge of a changing demand by farm and industrial equipment users and are using our experience of the past year to solidify our position of leadership through a broadening of our product acceptance.

"Through strengthened market research activities we have learned that existing tractors and implements do not necessarily fill all needs. Consequently, our 1961 program includes the development and merchandising of several new units. Among others, these include improved tractors for industrial use."

### Plant Renovated

"A complete renovation of our Highland Park, Mich., tractor plant, the addition of new manufacturing facilities, and the establishment of an independent status for quality control have been achieved for that purpose.

"Rigid control of operating costs, product diversification, improved distribution facilities and sales-supporting operations also will help to assure those values. We plan to take advantage of the prospects for increased sales by concentrating our engineering activities on the development of equipment to further increase farmers' and industrial users' efficiency."

### Jenks Optimistic

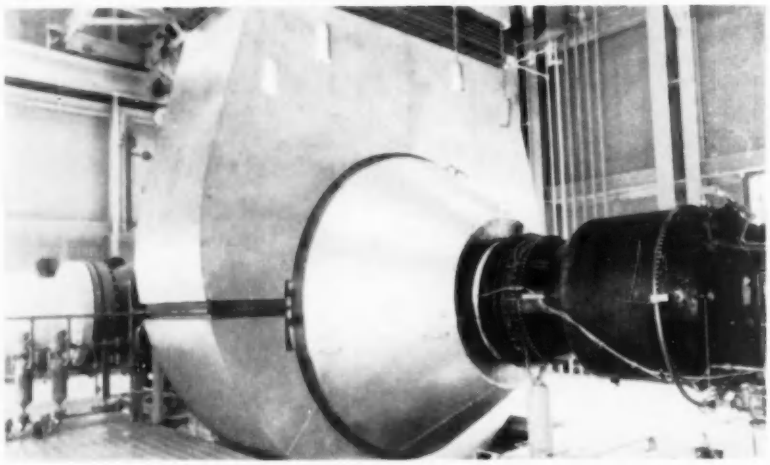
Another industry leader who expects 1961 to show improvement over this year is Frank W. Jenks, president, International Harvester Co.

"The retail farm equipment market this fall has been somewhat improved," Mr. Jenks said. "There also has been an upward trend in gross farm income, as a result of improved hog prices, generally steady cattle prices, and an improved cotton situation. It is not likely that we will have a recurrence of the very adverse weather conditions which hampered selling in early 1960.

"For these reasons it seems reasonable to expect that there will be a moderate improvement in our farm equipment business.

"Our Canadian subsidiary ex-

## AIRCRAFT JET ENGINE PROVIDES STATIONARY POWER



**The forerunner of a new family of stationary power units employing aircraft jet engines was placed in operation last month. Designed by The Cooper-Bessemer Corp., the new RT-248 gas turbine uses as its energy source a modified Pratt & Whitney J-57 jet engine, which drives a power turbine and, in turn, a large centrifugal compressor. The 10,500-hp unit burns natural gas as it pumps natural gas into long-distance pipelines of the Columbia Gulf Transmission Co. near Clementsville, Ky. It is the first in a line of jet-powered gas turbines to be rated from 350 to 15,000 hp.**

pects its farm equipment business will be somewhat improved in 1961, while other sales remain about the same as in 1960."

### Construction Equipment

Both Mr. Jenks and L. B. Neumiller, Caterpillar Tractor Co. board chairman, expect construction machinery sales to improve over 1960.

"I believe," Mr. Neumiller said, "that it is not unduly optimistic to expect that, if a fairly general recovery is evident by the middle of 1961, domestic construction machinery business during the year may equal or improve on the 1960 level."

## Third Best Year?

Passenger car sales continued to move along briskly in November, pointing to a good close-out on calendar 1960 and (it is noted) the 1960 model year. Sales for the month totaled nearly 530,000 units, a slight increase over October and a substantial increase over November, 1959.

Continuing at the same pace through December, automobile sales for 1960 should fall just short of 6.2 million units (domestic) for the third best year in history. Sales through November totaled 5,653,000.

November sales a year ago were abnormally low because of the steel strike and totaled only 374,320, so a valid comparision is impossible. Of the five U. S. manufacturers, only Studebaker - Packard, with 7442 sales, showed a drop from last year. But Studebaker did boost sales from October, and closed out the month strongly with 2888 units sold, more than in the previous 10 days and 13 per cent more than the final 10 days of October.

### 159,000 Compacts Sold

Compacts accounted for approximately 159,000 sales in November, or slightly better than 30 per cent. A year ago compact sales of 84,800 accounted for less than 23 per cent.

A good share of November's total sales were 1960 model cars. Dealers still continued to receive shipments of 1961 cars as part of the early inventory build-up. While sales for the month totaled 530,000, production was nearly 590,000 units. Part of the difference is accounted for by exports, but most of the cars were marked for U. S. dealers.

A random sampling of sales reports for November showed:

Record sales at Chevrolet Div., with 143,500 cars sold, including 22,850 Corvairs and 120,650 "big" cars. Previous high of 129,643 was set in 1955. Corvair sales are running ahead of last year.

Dodge sales (including the new Lancer) are the highest since November, 1955. Sales of 25,051 cars were 20 per cent higher than '59, although Lancer got off to a slow start.

### Pontiac Sales Soar

Pontiac sales of 34,829 were 96 per cent over last year, and highest November sales since 1955. Tempest, introduced in November, gained fast, closed out with 2728 in final 10 days.

Rambler sales of 33,577 put American Motors over 400,000 mark (by 380 cars) for the first time in history. In 11 months last year sales totaled only 338,299, and in full year only 368,464. Sales in November a year ago totaled 30,289.

Thunderbird (introduced in November) sold 8100 units, highest month in the car's six-year history. Mid-month sales set a record with 459-a-day pace. T-Bird has a two-month order backlog.

Cadillac had its best November in history with 14,757 cars sold, topping November, 1955, by 1077 units. Eleven-month total of 138,499 tops full 1959 total and tops the former high year, 1957, by seven per cent.

## 2 New Models Due

Two General Motors divisions will introduce new model automobiles shortly after the first of the year. The divisions, Cadillac and Oldsmobile, already are in production on the new specialty models.

Cadillac will bring out a short deck town sedan, which no doubt was planned for those people who like to close their garage doors at night. The rear deck of the town sedan will be seven in. shorter than the standard Cadillac models.

Olds will introduce a limited-production sports convertible called the Starfire.

## Chevrolet Expansion

Chevrolet is adding nearly 226,000 sq. ft. of floor space to the Corvair assembly plant at Willow Run, Mich., increasing the plant's capacity by some 50 per cent. The work is under way and is slated to be completed by next Sept. 1.

Of the space to be added, approximately 212,500 sq. ft. will be used for assembly operations. Seven new assembly bays will be built. The remaining new space

# NEWS

CONTINUED

will be assigned to receiving, waste handling, and additional cafeteria and locker facilities.

Plant Manager L. J. Rausch said the new space is needed to provide more assembly room for additional Corvair body styles. The plant started out building only two body styles, now builds five.

## Chrysler's New Head?

Appointment of Lynn A. Townsend to the post of administrative vice president of Chrysler Corp. set off a wave of speculation in Detroit that he would be the next president of Chrysler.

Mr. Townsend, formerly group vice president-international operations, now ranks third in the corporate set-up behind L. L. Colbert, president and board chairman, and E. C. Row, first vice president. Mr. Row will be 65 on Jan. 10 and plans to retire at the end of January.

Reports in Detroit are that Chrysler may name a new president at the Jan. 5 meeting of the board of directors. Mr. Townsend's elevation puts him in the running for this job. Several outsiders, including at least two competitive automobile company executives, also have been mentioned.

Mr. Colbert vacated the presidency last spring in favor of William C. Newberg, and stepped in again nine weeks later when Mr. Newberg left the company.

Mr. Townsend is a relative newcomer to Chrysler, coming from the public accounting firm of Touche, Ross, Bailey & Smart in 1957. He joined Chrysler as comptroller and was elected a vice president in October, 1958 and a director in January, 1959.

**Lynn A. Townsend**

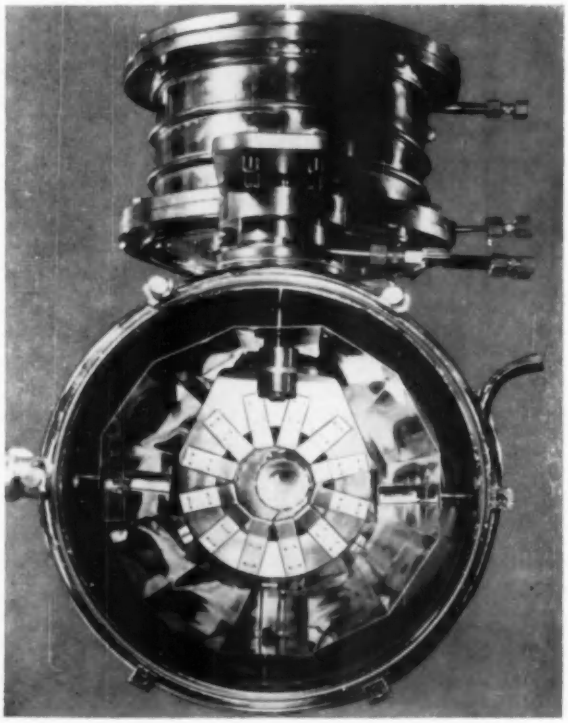
In his new job Mr. Townsend will direct the current administrative affairs of the corporation and also will continue to supervise international operations.

Mr. Row, who joined Dodge Brothers 44 years ago, was administrative vice president from 1956 until he was made first vice president in 1958. The administrative vice president post has been vacant since then.

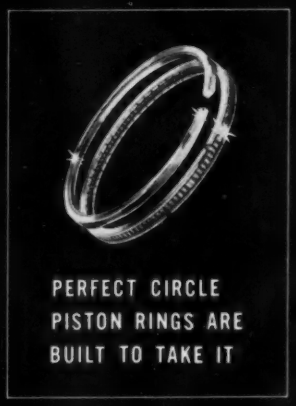
Mr. Townsend, 41, is a native of Flint and a graduate of the University of Michigan. He was disbursing officer on the aircraft carrier Hornet during World War II.

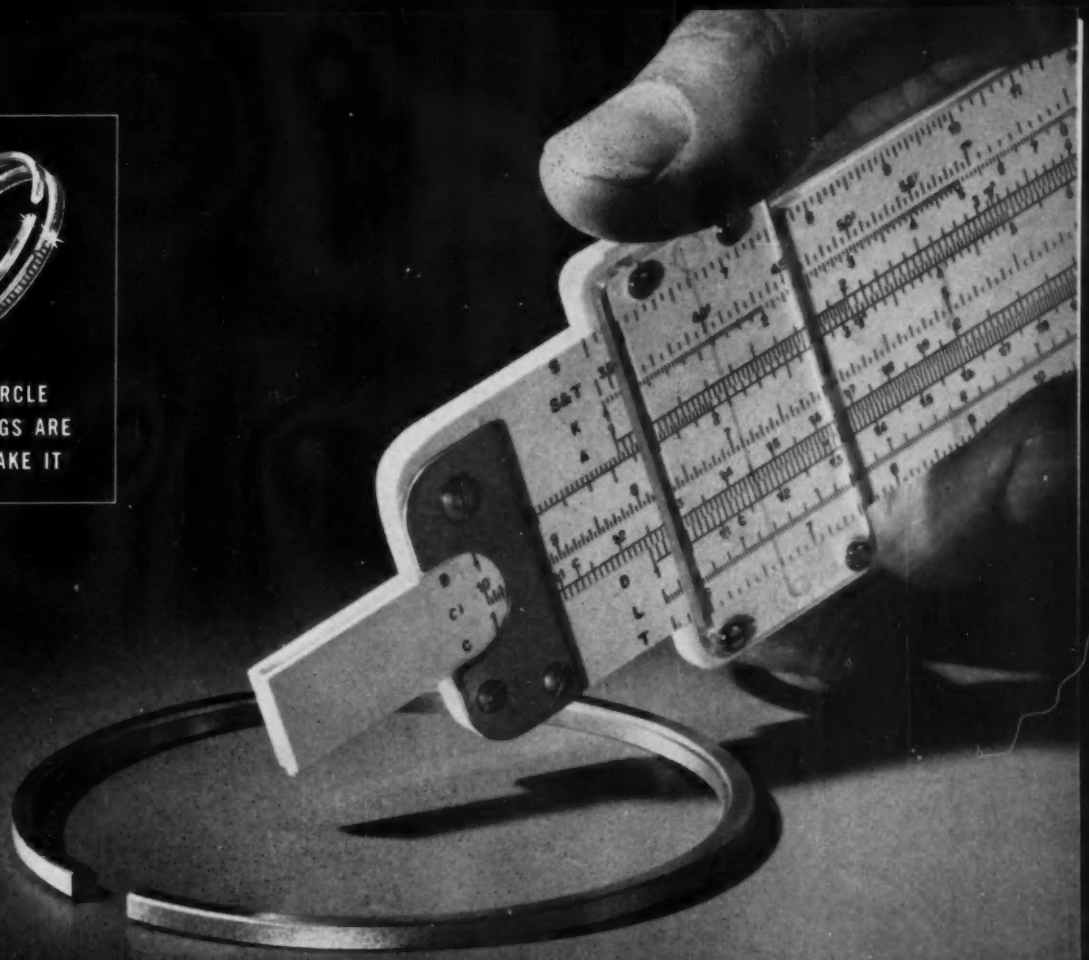
One of Mr. Townsend's first official acts in his new capacity was to announce an expansion of marketing responsibilities for R. P. Laughna, new vice president-marketing. Mr. Laughna now has responsibility for developing overall corporate marketing policies and programs, and current and long-range sales objectives.

He had been vice president of the corporate planning staff since April, 1958, in charge of marketing, product planning and production programming. His new duties will include corporate advertising and various marketing, planning, research and service training functions.



**High-vacuum unit tests refractory metals at Union Carbide Metals Co. laboratories at Niagara Falls, N. Y. Tantalum heating elements, proceeding ray-like from the eye, are framed by molybdenum radiation shields. Unit determines ultra high temperature properties of jet engine metals.**



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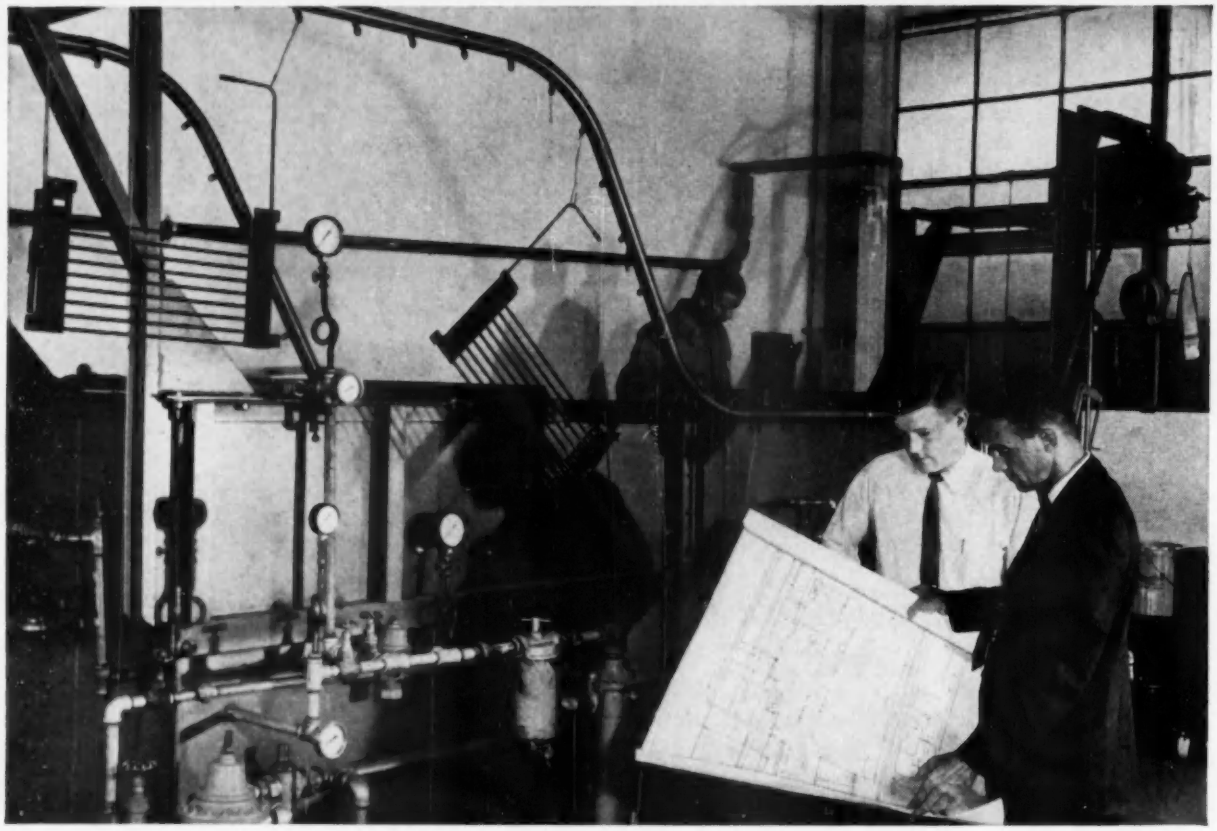
DU PONT TRICLENE® TRICHLORETHYLENE FINISHING NEWS



This unit demonstrates nonflammable painting process to visitors at the Chicago Plant of G. S. Blakeslee & Company. Among its other functions are: painting of sample parts for prospective machine purchasers and checking out improved design features for construction of new units.

# Now another metal fabricator selects "Triclene" Painting—

TRICHLORETHYLENE

*Several production units already installed . . . still more in design stage*

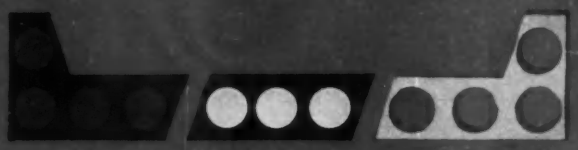
A large manufacturer of lighting fixtures, after a successful demonstration of painting his product by the "Triclene" method, recently installed a unit of his own. Careful consideration was given other methods, but "Triclene" Painting won out for its space-saving advantage and inherent safety.

Eleven other manufacturers are now using "Triclene" Painting Systems in production operations. Scores of progressive metal fabricators across the country are making detailed evaluations to apply cost-cutting "Triclene" Painting to their operations.

The complete three-stage "Triclene" Finishing System—Degreasing . . . Phosphatizing . . . Painting—introduced last year, met with immediate success. One of the first to adopt it was a large automotive manufacturer (photo at right).

If you are considering expansion or replacement of your present finishing operation, call Du Pont for more information and help in evaluating "Triclene" Finishing.

"TRICLENE" Finishing is a revolutionary new way to finish metals. Clean, phosphatize and dip or spray paint continuously in a single medium of nonflammable "Triclene" trichlorethylene. Use processes singly or in combination to suit any metal finishing need.




## "TRICLENE" PAINTING offers major advantages

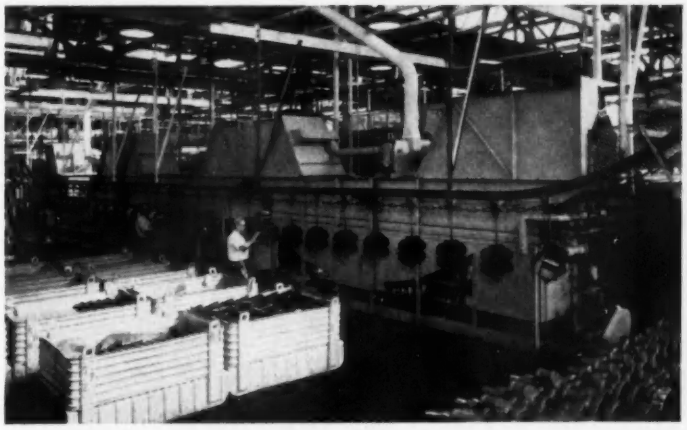
1. **Low investment:** Often eliminates baking ovens; no drip pans needed. Fewer steps mean in-process inventory and conveyor length can be reduced by over 50%.

2. **Economy:** Operating costs reduced by as much as 30% through overspray re-use and recovery of most of the nonflammable "Triclene" thinner.

3. **Reduced plant space:** "Triclene" Painting can be done in less than one-half the space usually needed, as fewer steps are required.

4. **Nonflammable:** Increases safety. Fire hazards minimized. Insurance rates are often lower. Elimination of costly fire protection equipment.

5. **Versatile:** Dip or spray-in-vapor cycles can be selected. Combines readily with "Triclene" Vapor Degreasing, Phosphatizing Processes.



**Finishing line** in automobile plant includes complete 3-stage "Triclene" Vapor Degreasing, Phosphatizing and Painting units. Turns out 2,400 finished parts per hour. Operating since 1959, it's one of the first installed. Unit requires only 65 linear ft. in comparision with 150 ft. needed for conventional system.

If you want to evaluate a "Triclene" process for your operation, a Du Pont technical representative will call at your convenience. He can assist you by using our exclusive cost analysis procedure, which will help you determine quickly the savings these processes can bring to your operation. Just fill out and mail coupon below to:

*E. I. du Pont de Nemours & Co. (Inc.)*
*Electrochemicals Department—Chlorine Products Division*
*Wilmington 98, Delaware*

**I'm interested in evaluating Du Pont "Triclene" Finishing for**

☐ **CLEANING** ☐ **PHOSPHATIZING** ☐ **PAINTING**

☐ I would like technical literature describing these processes.

☐ Our Company would consider replacement of existing equipment if we can be shown economic justification. Please send me your Finishing Data Sheet.

☐ We have an immediate need for new finishing equipment to be installed by_____(target date)

Please have your representative contact me.

Name_____Position_____

Firm_____

Address_____

City_____Zone_____State_____

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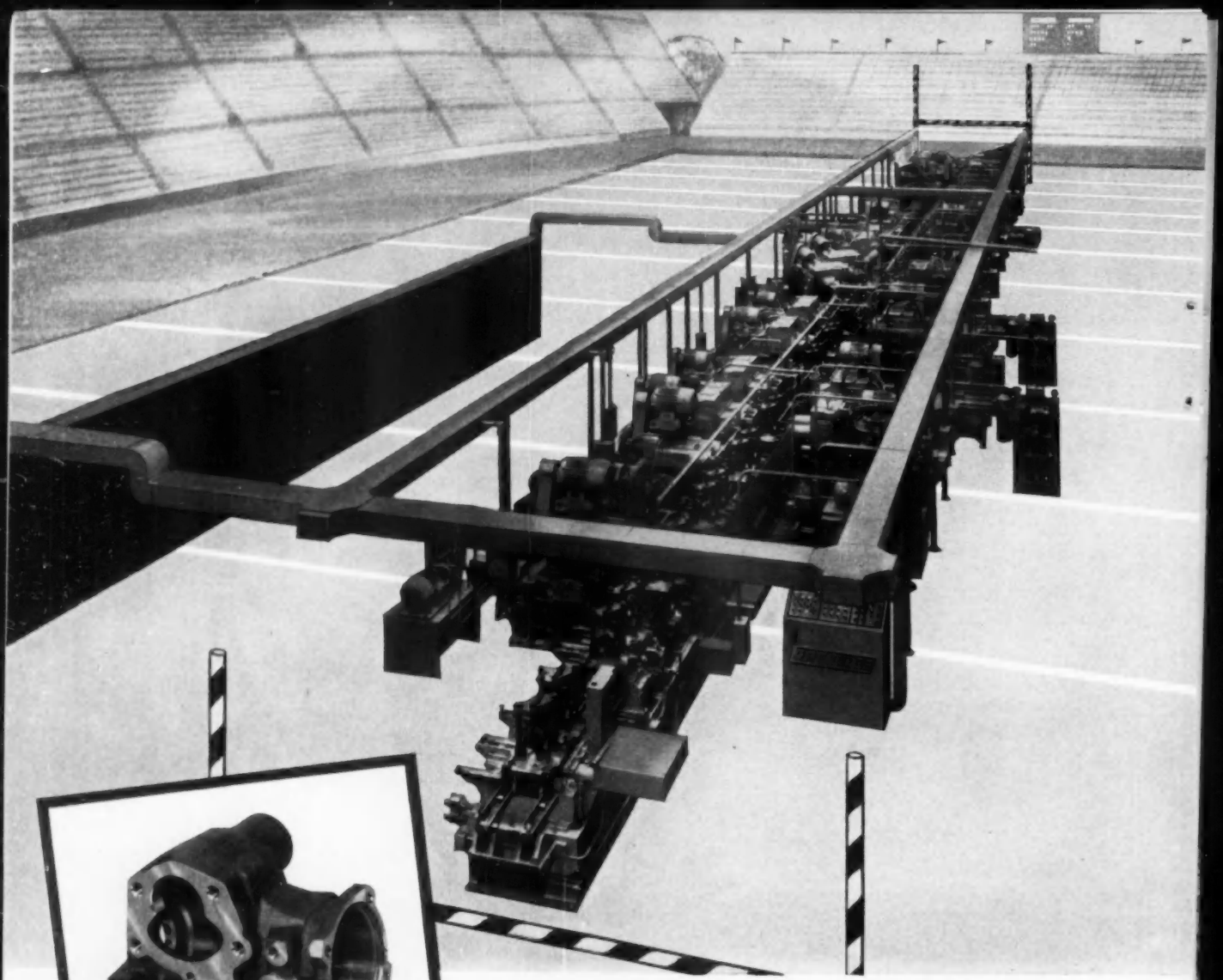

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# NEWS

## FEATURES

# AMC Plans Foreign Plants

## Chapin Optimistic Despite New Compacts

When the flood of compact cars hit the market, a lot of people wondered what would happen to Rambler, pioneer in the field. How could a little firm like American Motors Corp., they asked, stand up to the competitive power of the Big Three? Surely Rambler would have to give ground to the onslaught of smaller cars.

There may have been a question in the minds of a lot of people, but Roy D. Chapin, Jr., executive vice president of AMC, never doubted for a moment that Rambler would not only weather the flood, but increase its sales to boot. And now Mr. Chapin, recently handed the responsibility of carrying George Romney's compact car message to the rest of the world, is looking for bigger sales on the world market.

Two years ago, AMC enjoyed an enviable position in the automobile industry. Rambler had arrived — more than 700,000 had been built since the first modern Rambler was produced in 1950. AMC had eliminated its poor-selling Nash and Hudson big cars to concentrate on Rambler in '58. And, in the midst of a recession, Rambler production was nearly double the 1957 figure.

There even seemed to be room in the small car market for Studebaker-Packard to bring out its compact Lark. AMC was selling cars as fast as it could build them, and building them as fast as overtime schedules and bulging factory walls would permit.

### 500 Pct Rise in 3 Years

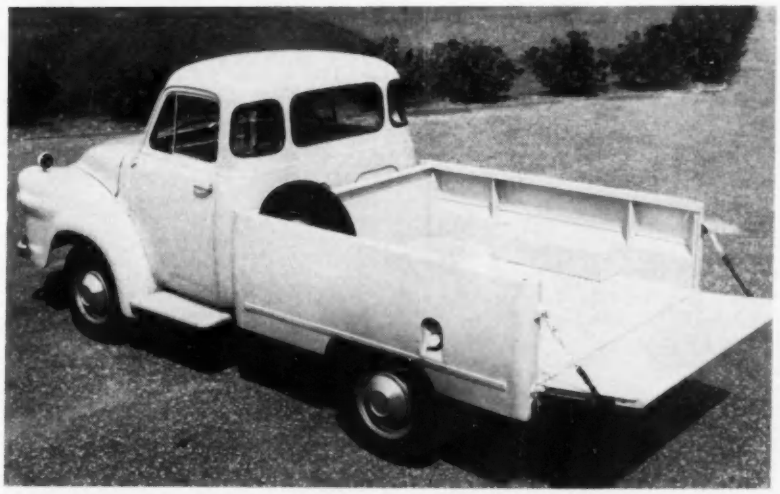
In '59, Rambler sales bounced even higher, with production topping 400,000 units, an increase of 500 per cent in just three years. But now came the big test: the incursion of the Big Three into the compact market. What would happen to Rambler?

Well, as Mr. Chapin likes to remind, Rambler held up all right. In fact, Rambler production for 1960 is more than 20 per cent better than 1959, approaching half a million units, and AMC is having its best year in history. But what about the future, with four more compacts added to the competition?

AMC still is not worried. Mr. Chapin has emphatically stated

(*Turn to page 47, please*)

**BEDFORD PICK-UP HAS NEW ENGINE**



**New half-ton is powered by latest Vauxhall 162-cu in. engine now used in Cresta and Velox sedans. Six-cylinder unit develops 113 hp at 4800 rpm and drives through all-synchromesh three-speed gearbox. The pick-up is built on 101-in. wheelbase and has gross rating of 4600 lb.**

# AI TABLOID

Steel production in India is expected to reach 2.5 million tons by the end of January. This will be an increase of 800,000 tons over 1959. India's increased production has cut its imports of steel in half in the last two years. India now imports about 600,000 tons of steel. In 1958 the figure was nearly 1.1 million tons.

* * *

Cash dividend payments by corporations issuing public reports amounted to $2 billion in September, bringing the total for the first nine months of 1960 to $10 billion. September disbursements were two per cent higher than in the same month in 1959.

* * *

The use of the electron mirror microscope to observe magnetic patterns in magnetic materials, the application of motion picture photography in this field, and the development of magnetic writing on premagnetized film are discussed in an Air Force report.

* * *

Forty-four studies for the Atomic Energy Commission in the fields of metallurgy and ceramics have been released for sale to industry and the public through the Office of Technical Services, Business and Defense Administration, U. S. Department of Commerce.

* * *

Two new bibliographies listing government research reports, translations and other technical documents on beryllium, columbium, tantalum, molybdenum, tungsten, platinum and other metals have been released to industry and the public.

* * *

Ways to develop columbium metal for space vehicles and atomic reactors by adding various alloys are discussed in a recent study. Also available are a study on the relationship of hot-hardness to the extrusion behavior of molybdenum base alloys at high temperatures, and a report on delayed failure and hydrogen embrittlement in titanium.

In the relentless crusade to make foods, beverages, and cosmetics safe, one chemical, sorbic acid, is shining brightly. Its superior power to check the growth of many fungi has boosted it into prominence almost overnight.

* * *

Research reports on development of brazing filler alloys and welding techniques have been released to industry and the public by the Office of Technical Services, Business and Defense Services Administration, U. S. Department of Commerce. One publication tells about development of experimental brazing filler alloys containing temperature depressants which can be volatilized during the brazing of stainless steel to leave joints of high remelt temperature. The other reviews current procedures in welding high-strength steels for aircraft and missiles.

* * *

Descriptions of the use of differential thermal analysis to study high temperature characteristics of polymers is included in a Navy report. Also available are a report on development of cells resulting from energy conversion studies, a study of color reactions for inorganic analysis, and a report discussing bond disassociation energies.

* * *

In response to requests from aircraft design engineers, a memorandum has been published on the new super-alloy WI-52. Private companies aided in collecting data on WI-52, a cobalt-chromium-tungsten alloy developed for gas-turbine components requiring high-strength properties in the 1000 to 2000F temperature range.

* * *

Three types of silicone vulcanizates which retain their strength at high temperatures are evaluated in an Army report. Also available is an Army report on organic metallic soaps and polyhydric compounds as heat stable inhibitors for vulcanizates.

## S-P Retains Loewy

Raymond Loewy Associates, famous industrial designers, have been retained by the Studebaker-Packard Corp. as consultants in advance styling, A. J. Porta, executive vice president and automotive general manager, has announced.

First retained by Studebaker in 1938, Mr. Loewy renews his affiliation with specific application to styling of automobile interiors. The Loewy firm will work in conjunction with Studebaker-Packard's advance styling department under the supervision of Randal D. Faurot, director of styling.

## Goodyear Contract

Goodyear Aircraft Corp.'s Arizona Div. has been awarded a contract for production of self-propelled, low-silhouette trailers to be used in providing ground power and starting Navy jet aircraft.

The contract was awarded by the Garrett Corp.'s AiResearch Manufacturing Div. The trailers will house small gas turbine-driven systems built by AiResearch.

The low height of the units permits their placement under and around Navy jets both at sea, aboard carriers and on shore, Goodyear said.

## Group Changes Name

The Automotive Tool & Die Manufacturers Association has been renamed Detroit Tooling Association. It comprises 160 manufacturers of dies, jigs, fixtures, molds, gages, tools, special machinery, and related products. Members also include suppliers of die tryout, machining, experimental and designing services.

(*Continued from page* 45)
that Rambler will continue to prosper under the increased competition from the new makes. The '61 Rambler models, according to him, have brought some "pleasant surprises" with what he calls "gratifying" introductory sales.

### 'Luxuries' Score Well

One of these surprises, he revealed, was the reception of the Rambler Rebel and Ambassador V-8, high-profit "luxury" compacts that accounted for only nine per cent of all Rambler production in the 1960 model run. Mr. Chapin said these two series, which AMC has never fully exploited, have received a boost from introduction of the three new General Motors smaller cars (Buick Special, Pontiac Tempest, Oldsmobile F-85), which fall into the same general market category.

AMC built 24,000 Ambassadors and 16,000 Rebel V-8's in 1960, but Mr. Chapin feels there now is a possibility of raising the schedules for these two cars.

AMC currently is in the midst of a $43 million expansion program at its Wisconsin plants that will bring capacity up to 600,000 units in 1961. And the firm is already benefiting from this added capacity by reducing the amount of costly third-shift overtime that cut into profits during the early part of 1960, when a third shift was necessary to meet production demands.

### New Toronto Plant

But the firm is already moving out into the world, so to speak. In January, a new plant in Toronto will begin producing cars for the Canadian market. For the last two years, AMC has shipped built-up Ramblers from Kenosha, Wis., into Canada, with the Canadian buyer paying an import duty.

The new plant will enable AMC to be more competitive in Canada, where the other U. S. car companies already operate their own plants. The Canadian plant also will relieve pressure on the Kenosha assembly line, allowing AMC to build an additional 16,000 cars in Wisconsin for the domestic market.

But Canada is just a part of AMC's overall plans for expansion of the world market. At the Dec. 1 meeting of the board of directors, Mr. Chapin was given the added responsibilities of the fiscal and international operations for both the Automotive and Appliance Divs.

Currently, AMC operates through licensed assembly plants and distributors in export. The Canadian plant, a wholly-owned subsidiary, represents the company's only foreign investment, other than in appliance plants.

### Plan European Move

But "in the near future," as Mr. Chapin puts it, the company plans to have plant investments in Europe and Latin America. This should give AMC a stronger foothold to compete with not only U. S. automotive firms expanding overseas, but also the increasingly competitive European car makers.

AMC is not planning to set up operations in any state other than Wisconsin, however. Mr. Chapin explained that the single set of standards, overhead, taxes, transportation, cost per employe and other breakdowns make it advantageous for the company to plan all of its domestic expansion within its present Kenosha-Milwaukee complex.

Even when production reaches

(*Turn to page* 138, *please*)

## RENAULT ESTAFETTE HAS FIBERGLASS 'TOP HAT'

**Fiberglass roof section raises interior height of Renault's Estafette to six ft for stand up access or garment delivery. Reinforced molding increases cargo capacity by 12 per cent to 215 cu ft. Truck has 30 hp engine.**

# EUROPEAN ROUND-UP

By DAVID SCOTT • Special Correspondent

Ford's bid for complete ownership of its English subsidiary has raised British eyebrows. A desire to consolidate group activities, aimed at small-car production for the American market and a strengthened position in Europe, is generally accepted.

But this was already possible since the U. S. company controlled operations at Dagenham through majority shareholdings. One of the further guesses is that the $363-million offer is a hedge against a dollar devaluation in terms of gold by President-elect Kennedy.

### U. S. Compacts Hurt

Meanwhile, British manufacturers show mounting apprehension about the shifting domestic American market and the export potential of the compacts. Protected by high tariffs, United Kingdom's auto industry fears that at the G.A.T.T. negotiations in Geneva America may press for a major reduction in the 30 per cent import duty for cars with engine displacements in the compact class and above.

The British slump has now extended to some of the major component producers. Joseph Lucas, the country's biggest supplier of electrical equipment, has put half its workers on a four-day week.

Pressed Steel, making bodies for the majority of car manufacturers, has laid off a quarter of its labor force at its big Swindon plant which was already on a three-day week. Dunlop, Wilmot Breeden and Timken also are hit.

***Jaguar, revelling in full order books, is one of the few companies to prosper at this time. Its production is well above the 1959 level, and the retooling of its recently-acquired Daimler plant is expected to raise output by another 20 per cent in 1961.***

Squeezed by an economic bear hug at home, British firms are speeding up their export drive. In Hamburg, Germany, English Ford has staged the largest sales jamboree ever seen in Europe. It has cut the Italian price of the Anglia, and is streamlining marketing arrangements in Denmark.

The British Motor Corp., with its A40 sedan already being built in Italy, has signed a 10-year agreement with the Sociedad Anonima Vehiculos Automoviles for local production of its trucks in Spain.

### Eye Red Markets

Many companies are eyeing Communist markets, and Rootes, Standard-Triumph, Lucas and Dunlop will be among the 621 exhibitors at the $5.6 million British Trade Fair in Moscow next spring.

Dunlop has already installed a wheel manufacturing plant in Czechoslovakia, and Vickers-Armstrong recently contracted to supply the Czechs with $2.8 million worth of equipment for making nylon tire cords.

Holland remains one of the bright spots in Europe, for sales are climbing steadily with no sign of a recession.

***Italy is Europe's fastest growing market, with registrations this year running 50 per cent higher than in 1959. But while vehicle production there is a third above last year, competition is mounting due to relaxed import quotas, more local assembly, and price cuts on foreign makes.***

In Sweden, Volvo has escaped the crisis, since rising exports to Switzerland and other European countries have more than balanced the slump in U. S. sales. Production this year is expected to reach a high of 80,000. Saab, however, reports growing American orders.

But Germany is at last beginning to feel the pinch, for car output in October dropped unseasonally. The French industry is still under pressure, with exports continuing to decline.

On the technical front, Rolls-Royce has introduced a new range of supercharged industrial Diesels featuring individual four-valve cylinder heads claimed to increase output by about 12 per cent. Dual valves are stated to give improved breathing and cylinder filling, and to provide better heat dissipation in the exhaust area.

### De Havilland Engine

De Havilland has disclosed some preliminary data on the small high-powered Erlich engine. Although details have not been released, the prototype is described as a 7.6-cu in. unit of unusual two-cycle design that develops 21 hp at 10,400 rpm.

David Brown has brought out a low-cost exhaust brake for Diesel tractors. It employs a control pedal operating a simple clapper-type valve, placed in the exhaust manifold, which permits immediate application of engine compression for speed reduction.

A new method of casting hollow crankshafts has been patented by English Ford. Departing from the usual method of integrating the oil tubes with the shaft in the mold, only the oil holes are cast in the shaft. Tubes are inserted later and sealed by self-hardening epoxy-type resin hardened by heat treatment.

## U. S. Steel Visualizes Autos of Future At Detroit Parley With Stylists, Designers

Last month representatives of numerous divisions of United States Steel Corp. met in Detroit with stylists and designers of motor vehicles to unveil an advanced marketing approach and a display of designs of vehicles of the future. John M. Reinhart, a former automotive designer, now USS design representative to the motor vehicle industry, presented "Concepts," a pictorial album of advanced design concepts for the space age.

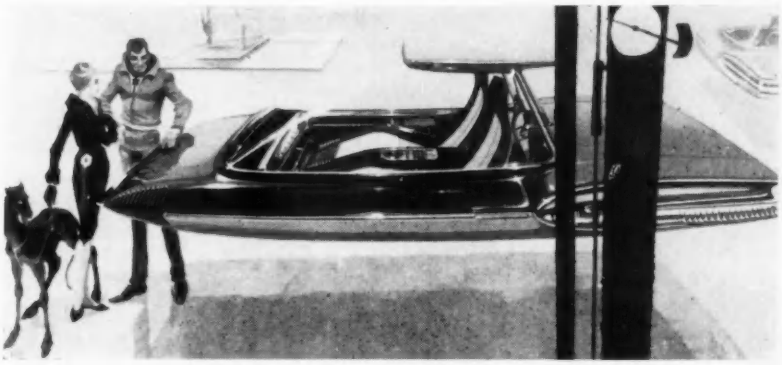
At a press conference the USS group stressed the fact that USS is producing some 10,000 kinds of steels, including the newer high tensile steels. In light of the current competitive situation among materials producers, U. S. Steel has embarked on an aggressive campaign to work more closely with their customers to insure the most economical utilization of the variety of steels.

In addition, the corporation has launched a marketing concept to aid the automotive industry in promoting the sale of vehicles to the public. This will stress the role of steel in the manufacture of safe and durable products.

The "Concepts" project is designed to cement better relations between the designer and the steel supplier, stressing new ideas in design. It emphasizes the availability of specific kinds of materials for a given application. One of the materials slated for future exploitation is an upholstery cloth made of finely woven stainless steel wire.

Several of the design concepts which may never see the light of day were displayed. Although far in the future, they indicate the advanced ideas that can be developed cooperatively by the user and the supplier.

Among the items displayed were stainless steels and their use in long-lasting mufflers; vinyl-coated sheet and strip; galvanized steel; the variety of steel tubing available for structural use, and newer high tensile steels for structures as well as for bumper bars.



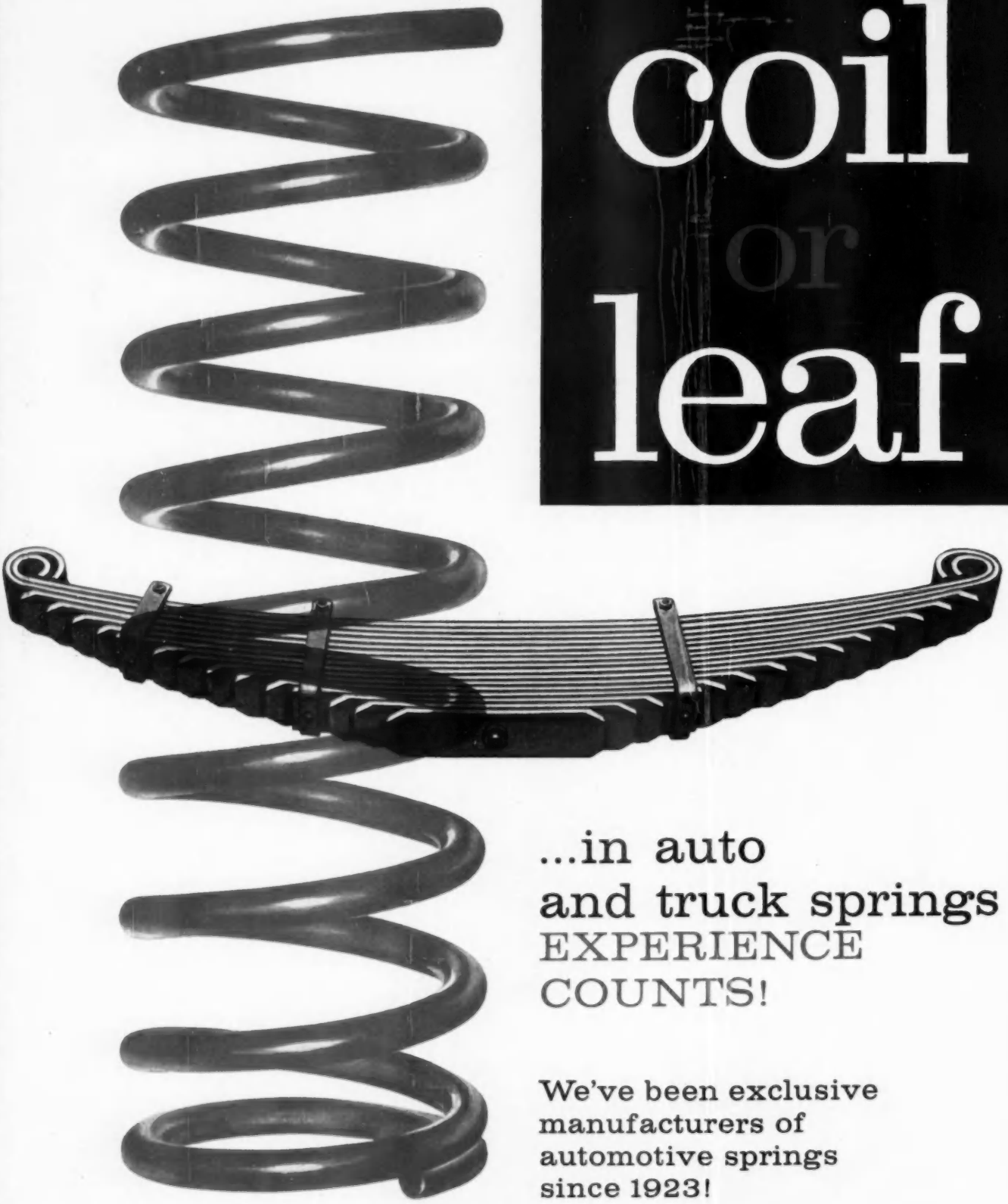
**Ducted-Air Vehicle 'Floats' on Air Jets**

**Car for Vacationers of the Future?**

## Heat Transfer Research

The American Foundrymen's Society Training and Research Institute has commissioned the Franklin Institute of Philadelphia to conduct original research in the field of heat transfer. Basic aim of the program will be to evaluate the heat flow from high-temperature molten metals as it occurs during the casting process.

# coil or leaf



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# MEN
## IN THE NEWS

*Chrysler Corp. — Paul M. Nash has been promoted to manager of Mound Rd. engine plant.*

*Borg-Warner Corp., Mechanics Universal Joint Div.—William F. Martin has been been promoted to vice president and assistant general manager.*

*Frank G. Hough Co. —Jules C. Laegeler has been appointed vice president in charge of engineering.*

*Pittsburgh Plate Glass Co., Glass Div. —Edward W. Hufnagle has been promoted to manager of automotive sales.*

*Leukart Machine Co. —A. L. Spurlock has been named vice president and general manager.*

*Eaton Mfg. Co., Marine Div.—Charles D. Barnes (far left) has been named sales manager and Robert A. Wieland, Jr., has been named factory manager.*

Dana Corp.—**Norman W. Kimmel** has been promoted to director of purchasing and production control.

Highway Trailer Industries, Inc.—**Ray Rowitzer** has been named general manager of Highway - Weber Trailer Co., a subsidiary.

American Motors Corp.—**Frederick L. Schaller** has been promoted to European regional sales director.

Bendix Corp., Bendix-Filter Div.—**Ray J. Raupp** has been named chief engineer.

Jones & Laughlin Steel Corp., Stainless and Strip Div.—**Kenneth E. Lewis** has been appointed Detroit plant manager and **A. C. Prudner** has been named Youngstown plant manager.

Ramsey Corp., Retaining Ring Div. —**Richard Marshall** has been promoted to manager.

Ford Motor Co.—**K. N. Krecke** has been appointed manager of stamping plants; **Christopher E. Bowles** has been named manager of the Dearborn engine plant, and **Walter H. Johnson** has been promoted to production manager, Dearborn engine plant.

Syntron Co.—**J. W. Philippovic** has been appointed manager of automation and parts handling equipment department.

General Motors Corp., AC Spark Plug Div.—**Oliver G. Elliott** has been named assistant to the manufacturing manager and **Jacob K. Ziegler** has been promoted to general superintendent.

Mack Trucks, Inc.—**William M. Williams** has been appointed director of purchases.

Union Carbide Corp., Haynes Satellite Co. Div.—**Charles G. Chisholm** has been appointed vice president-marketing.

Midland-Ross Corp., Cleveland Div. —**Neal H. Hutchison** has been named director of purchases.

Borg-Warner Corp., Warner Automotive Div.—**John W. Holdman** has been appointed vice president-engineering.

Fuller Mfg. Co.—**J. Seton Gray** has retired after 29 years as board chairman.

E. W. Bliss Co., Canton Div.—**Carl H. Smith** has been promoted to manager of sales engineering.

Waukesha Motor Co. — **James E. DeLong** has retired as president after 25 years. **Charles E. Nelson** has been named to succeed him.

Goodyear Tire & Rubber Co.—**L. A. Hurley** has retired as manager of interplant relations after 25 years.

Norma-Hoffman Bearings Corp.—**William B. Clark** has been named manager of manufacturing engineering; **Frank H. Rae** has been promoted to chief process engineer, and **David Albert** has been appointed superintendent of inspection and quality control.

Thompson Ramo Wooldridge, Inc., Michigan Div.—**Robert M. Lynas** has been named operations manager.

Jack & Heintz, Inc.—**Jerry Gabriel** has been appointed director of long range market and product planning.

Standard Oil Co. (Ind.)—**Charles B. Tracy** has been appointed senior project automotive engineer and **Lee J. Allman** has been named project automotive engineer.

Chrysler Corp., Dodge Div.—**Lee F. Desmond**, executive assistant to the general manager, has retired.

Continental-Diamond Fibre Corp.—**John F. Rushmore** has been appointed manager, sales administration.

### Necrology

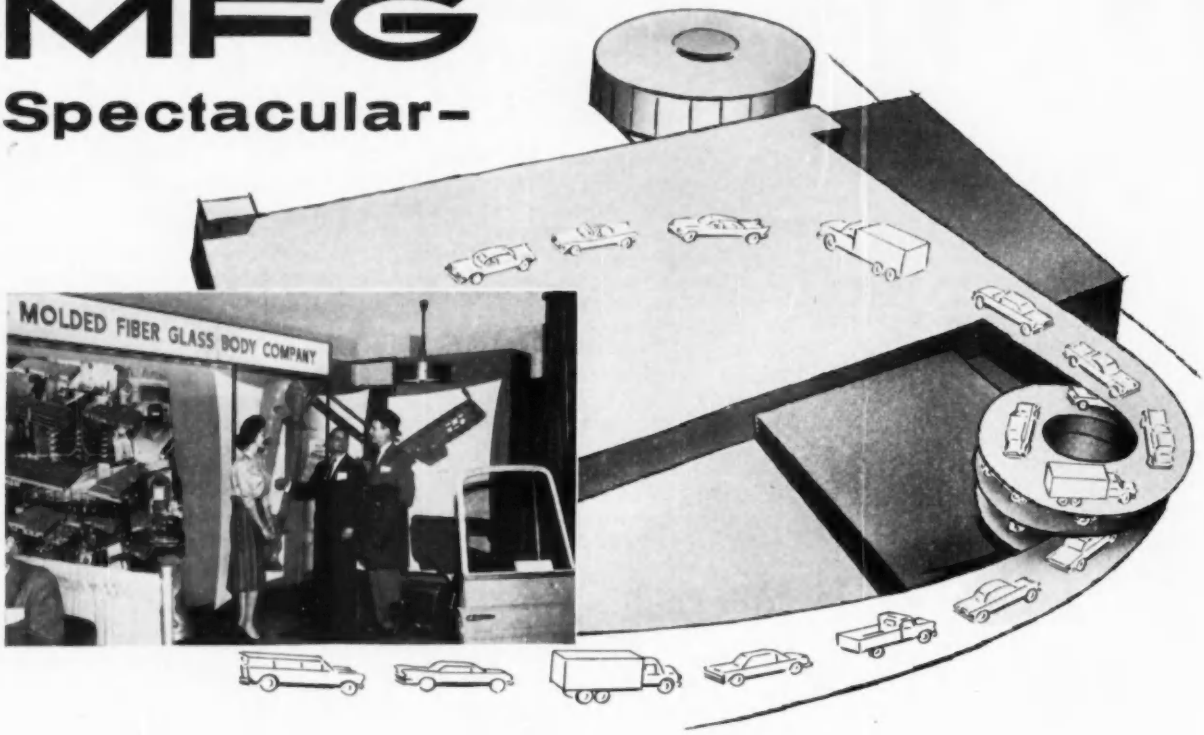
**John W. Speaker**, 57, president of an auto accessories and specialities manufacturing company, died Nov. 22 in Detroit.

**Frederick G. Wilmot**, 65, former engineering director for Goodyear Tire & Rubber Co. of Canada, Ltd., died Nov. 21 in Toronto.

**Willard G. Burt**, 54, credit manager of Willys-Overland Export Corp., died Nov. 16 in Zug, Switzerland.

**Carl B. Cooper**, 69, former general sales manager of Goodyear Tire & Rubber Co. of Canada, Ltd., died Nov. 12 in St. Petersburg, Fla.

# It's an MFG Spectacular–




## AT NATIONAL SAE EXHIBIT—BOOTH NO. 1909

## NEW COBO HALL IN DETROIT—JANUARY 9-13, 1961

Saluting this 50th Annual Exhibit, Molded Fiber Glass will have on display a vast assortment of automotive parts and accessories which have been made lighter, stronger, better in Molded Fiber Glass!

Specifically, this material is increasingly valuable to manufacturers for several reasons:

- **Reduced weight**—approximately 40% less than steel.
- **Shorter tooling time**—make molds cheaper, faster.
- **Large complex moldings**—mean fewer pieces to assemble; greater unit strength; faster production.

MOLDED FIBER GLASS is exceptionally strong, impact resistant, rust-proof and impervious to salt and other road chemicals. It insulates: always quiet; warm in winter, cool in summer. Get the full story of better production with MFG. Write:

GREATEST NAME MOLDED FIBER GLASS IN REINFORCED PLASTICS

**MOLDED FIBER GLASS BODY COMPANY**

4611 Benefit Avenue—Ashtabula, Ohio

## an Editorial

# Improving Communications

THE DIRECTOR OF RESEARCH and Advanced Product Study of one of the large automobile companies said not long ago—"We probably spend 10 to 20 per cent of our time in just pure communication.

"WE ALSO BEGAN TO OBSERVE that we had some problems that were difficult and complex and that it was almost impossible to arrive at a conclusion because people had to talk to so many other people to solve the problem."

THESE STATEMENTS POINT UP the value and importance of specialized industrial and technical publications. If any one publication helps to reduce part of the 10 to 20 per cent time of engineering hours spent on communications, it more than justifies its cost. Assuming a minimum cost of $5.00 per hour for the least cost of an hour of engineering time, a technical publication which costs $2.00 per year justifies its cost if it saves only 24 minutes of engineering time per year for the reader.

WHILE THIS MIGHT BE ENOUGH to provide a full and sufficient reason for reading technical periodicals, there is the other additional reason cited in the quotation above—"some problems almost impossible . . . to arrive at a conclusion." Here indeed is a most important justification for a technical periodical.

Through AUTOMOTIVE INDUSTRIES MAGAZINE an engineer talks to more than 30,000 people when he contributes an article, news item, letter or other editorial product which is published in the magazine. In fact, however, his total audience will exceed 100,000 because of multiple readers for every copy of AI.

IN LOOKING AHEAD TO YOUR OWN PLANS for 1961, why not take time now to make greater use of this specialized automotive manufacturing "people-to-people" main line of communications. Save engineering time and expense by using AI facilities to the utmost advantage. Write to the editors whenever you want to get more information for yourself, or when you want to pass along your information to others.

Hartley W Barclay
**Editor and Publisher**

a fel-pro gasket
progress report

# new FEL-CoPRENE

## new rubber gasket for cylinder head covers—solves seepage problem—has dimensional stability for perfect fit

Seepage problems resulting from improper fit, or improper resistance to fluids can be solved by the exceptional dimensional stability, conformability and sealing capacity of FEL-CoPRENE, Fel-Pro's new special formula rubber compound. Problems of size change or breakage that often occur with conventional materials are eliminated. FEL-CoPRENE fits right every time—even after months of storage. Actually costs less to use because it eliminates costly returns, needless replacements and installation problems.

FEL-CoPRENE has greater resistance to high pressure and temperatures—will not stick or tear even after prolonged high temperature operation—comes off cleanly and in one piece, and FEL-Co-PRENE is not affected by oils or mild solvents. FEL-CoPRENE is the low-cost, high-performance choice for many other applications such as: Push Rods, etc., on both diesel and gasoline engines. The exceptional resilience of FEL-CoPRENE gives it better conformability for irregular surfaces particularly common to stampings.

Information concerning production samples and complete technical data is available on request. Send us your specifications and requirements for recommendations and advantageous quotes.

FEL-PRO maintains a complete engineering service to supply your gasket needs. Write for a copy of our complete gasket material selector catalog. Felt Products Mfg. Co., 7450 N. McCormick Blvd., Skokie, Illinois.

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Circle 133 on Inquiry Card for more data

# News of the MACHINERY INDUSTRIES

**October Machine Tool Orders Exceeded the September Volume by $3.65 Million, But Heavy Cancellations Adversely Affected What Would Normally Have Been a Very Good Month**

*By Charles A. Weinert*

## Machine Tool Sales Erratic in October

Overall sales of machine tools, on a *net new order basis* (gross new orders, less cancellations), rose $3.65 million in October from the September dip of $52.3 million—based on preliminary figures released by NMTBA.

However, the situations of the two major categories of machine tools — metal-cutting and metal-forming—were contradictory. Metal-cutting machines showed a $6.6 million net loss in orders because of heavy domestic cancellations and a drop-off in foreign business. While metal-forming machines chalked up a very substantial $10.25 million gain—and the best month of the year.

In October, *domestic gross* new orders for *metal-cutting* machines actually amounted to $34.05 million (higher than September's $32.1 million). But cancellations of $8 million reduced the domestic *net* new orders to $26.05 million (versus September's $25.8 million and August's $36.3 million, net).

As a matter of fact, cancellations also plagued the September results. They amounted to $6.3 million—previously attributed to the display of latest models of machines at the Machine Tool Exposition. The October cancellations of $8 million were simply reported by the Association as being "due principally to two sizable automobile programs being abandoned" — without disclosing company names.

On the *foreign* scene, *gross* new orders for metal-cutting machines totaled $9.55 million (down considerably from September's $17 million). Foreign order cancellations, nevertheless, only amounted to $50,000, so that the *net* was $9.5 million (versus September's $16.35 million).

Therefore, for metal-cutting machines both domestic and foreign, the net new order total in October was a preliminary $35.55 million. In September it was $42.15 million. October a year ago (1959) it was $43.6 million.

On *metal-forming* machines, domestic orders in October are valued at $16.9 million (versus $6.05 million in September), net. Foreign net orders were $3.5 million (versus $4.1 million). Total net new orders for metal-forming machines consequently amounted to a preliminary $20.4 million. In September, net new orders for metal-forming machines totaled $10.15 million. In October 1959, they were computed at $23.05 million (the highest, by far, 1959 month).

For both types of machines combined, the October net new orders amount to $55.95 million. In this total are $13 million of net new orders from foreign sources.

September's grand net total was $52.3 million; while for October 1959 the equivalent figure was $66.65 million.

To look at the record so far this year (10 months)—net new orders now total $543.95 million. In 1959, net new orders received for both types of machines during the same period, totaled $546.4 million.

Shipments in October 1960, both of metal-cutting and metal-forming machines, amounted to a preliminary $49.7 million. In September the figure was $53.95 million; and in August it was $47.9 million. For October 1959 the total was $51.5 million.

For the first 10 months of 1960, shipments of machine tools now total $540.25 million—below incoming net new orders to the extent of $3.7 million. During the same period of 1959, shipments totaled only $427.7 million.

(*Turn to page* 83, *please*)

**METAL CUTTING AND FORMING MACHINE TOOLS**

**Net New Order Receipts**

*(Millions of Dollars)*

| | Domestic | | | Foreign | | | |
|---|---|---|---|---|---|---|---|
| 1960 | Cutting | Forming | Total | Cutting | Forming | Total | Totals Combined |
| Jan. | $34.05 | $11.00 | $45.05 | $ 9.40 | $2.00 | $11.40 | $56.45 |
| Feb. | 35.40 | 11.10 | 46.50 | 12.30 | 1.80 | 14.10 | 60.60 |
| March | 36.55 | 11.05 | 47.60 | 11.90 | 2.45 | 14.35 | 61.95 |
| April | 28.90 | 11.40 | 40.30 | 7.80 | 3.75 | 11.55 | 51.85 |
| May | 26.05 | 6.35 | 32.40 | 11.90 | 5.65 | 17.55 | 49.95 |
| June | 25.45 | 10.30 | 35.75 | 17.15 | 2.20 | 19.35 | 55.10 |
| July | 22.65 | 5.70 | 28.35 | 10.85 | 3.75 | 14.60 | 42.95 |
| Aug. | 36.30 | 6.20 | 42.50 | 11.50 | 2.85 | 14.35 | 56.85 |
| Sept. | 25.80 | 6.05 | 31.85 | 16.35 | 4.10 | 20.45 | 52.30 |
| Oct. | 26.05* | 16.90* | 42.95* | 9.50* | 3.50* | 13.00* | 55.95* |
| 10 Mos. | 297.20* | 96.05* | 393.25* | 118.65* | 32.05* | 150.70* | 543.95* |

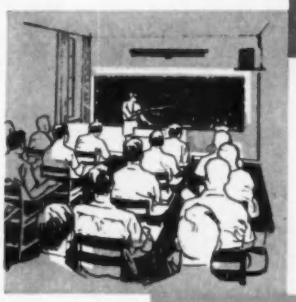
* Preliminary.

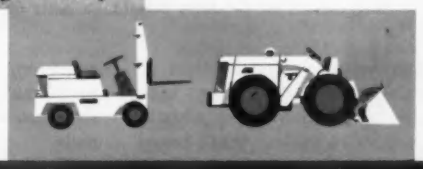
Source of Statistics: National Machine Tool Builders' Assn.

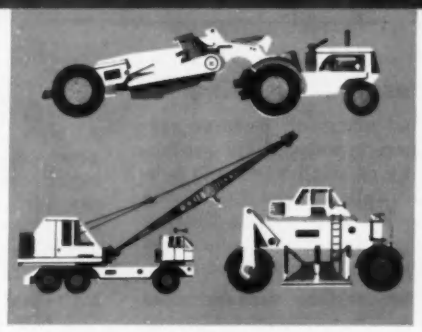
Circle 134 on Inquiry Card for more data

If you use hydraulics on your mobile equipment . . .

# CONSIDER THE ADDED BENEFITS AVAILABLE ONLY FROM VICKERS







### Unmatched research and development facilities

Developments that anticipate industry's changing hydraulics needs and the constant improvement of existing products are the twin goals of the largest and most experienced staff of technicians in the hydraulics field, working in facilities without equal. Both the facilities and the specialists are readily available to work with you on your hydraulics requirements.

### Specialists to solve problems in the field

From initial designs through production, Vickers sales engineers—graduate engineers who specialize in mobile hydraulics applications – bring you a wealth of knowledge to augment your own engineering activities. Field service, too, is handled by hydraulics specialists with the know-how needed to keep equipment on the job productively.

### Progressive designs based on 40 years' experience

Vickers not only pioneered mobile hydraulics but continues to lead in developing sound, new ideas. This base of hydraulics experience, without equal in the industry, assures you of dependable equipment with performance that matches your most demanding applications—at the lowest cost commensurate with top quality.

### World wide parts interchangeability and service

Shipping any of your equipment to overseas markets? If you are, then you can rely on complete interchangeability of parts from any of the Vickers plants located throughout the free world. Emergency user and dealer requirements in the U. S. are supplied from regional warehouses.

For additional data on Vickers hydraulics for mobile equipment applications and the added benefits you get only from Vickers, write to address below or contact your nearby Vickers application engineer.

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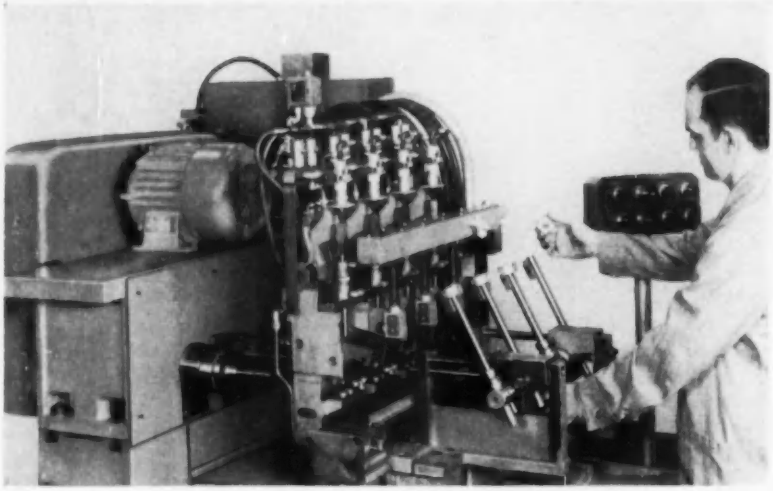
Circle 135 on Inquiry Card for more data

# NEW PRODUCTION and PLANT EQUIPMENT

By C. J. Kelly
ASSISTANT EDITOR

*FOR ADDITIONAL INFORMATION, please use reply card at back of issue*

## Automobile Parts Produced At High Production Rates



*Boring machine produces automobile parts up to 900 per hour.*

THE manufacturer reports that a standard single-end boring machine rough and finish bores aluminum die-cast valve rocker shaft bearings, four at a time, in a total of 16 seconds.

In operation, parts are manually loaded and radially located on a ram type loader. This mechanism is subsequently moved downward and forward to feed the parts into their machining positions. The automatic cycle is initiated by the final movement of the loading mechanism. Automatic toggle clamps swing downward while a set of overhead pneumatic hammers tap the parts to ensure accurate seating on location pads.

The table rapids to the left where both rough and finish boring is performed. Unloading is exceptionally rapid. As clamps are released, air pressure forces the workpieces from their positions and onto a conveyor which transports them to the rear of the machine. At this time air jets clear chips from location pads. *Ex-Cell-O Corp.*

**Circle 45 on Inquiry Card for more data**

## Ultrasonic Cleaning

A compact ultrasonic cleaning system has been introduced for production cleaning of small parts and subassemblies. Called model LG-75, the unit is powered by a 75-watt Sonogen generator driving a transducerized tank at a nominal frequency of 25 kc.

Transistors replace vacuum tubes to achieve a compact generator having long life and requiring little maintenance. The generator cabinet measures 12 by 10 by 5½ in. high.

To operate the LG-75 at peak efficiency, only two controls are needed. A panel-mounted switch turns the generator on, applying 75 watt of high-frequency energy to either of the two Sonogen-Z transducerized tanks, for conversion into mechanical vibrations of the same frequency. Resulting cavitation produces effective, high-speed cleaning.

A full-wave generator signal, which cleans even stubborn stains and soils quickly and thoroughly, is possible with the LG-75 system because its Sonogen-Z transducers are capable of handling larger amounts of power than conventional transducers. Output of the generator is easily switched either to a cleaning or a rinse tank. A second control matches the generator to prevailing conditions when first placed into operation. *The Branson Ultrasonic Div. of Branson Instruments, Inc.*

**Circle 46 on Inquiry Card for more data**

## Industrial Switch

KNOWN as the Flexitite Switch, a heavy duty push-button unit of corrosion-proof, all-rubber, weather-sealed construction is recommended for any two station application. This model meets NEMA types 1, 4 and 5 enclosurement requirements for both standard and heavy duty operation, the manufacturer reports. *Joy Mfg. Co., Electrical Products Div.*

**Circle 47 on Inquiry Card for more data**

## Internal Grinder

INTERNAL surfaces of cylindrical parts can be deburred and polished with accuracy and uniformity using a special machine which has been developed. The machine features an abrasive sleeve mounted on an expandable rubber mandrel and an adjustable fixture for clamping the part which is mounted on a powered turntable.

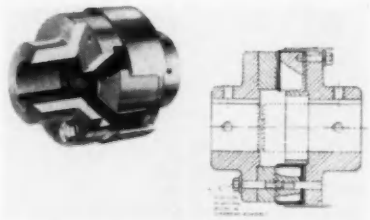
Through a series of micro switches, the table rotates when the mandrel is lowered into position. Reciprocal motion of the mandrel permits use of the full abrasive width, and produces a more uniform finish. Polishing cycle is controlled by an adjustable timer. Specially designed turntable drive provides adequate clearance to permit dust collection at the bottom of the cylindrical part being worked. *Grinding and Polishing Machinery Corp.*

**Circle 48 on Inquiry Card for more data**

## Flexible Couplings

STANDARD-duty type CQ and heavy-duty type HQ flexible couplings incorporate one set of jaws in removable ring form, permitting both independent rotation or radial removal of connected machinery. This feature is especially advantageous on gasoline, steam or diesel engine applications where the driven machinery must be disconnected in order to set or time the engine.

The couplings employ individual free-floating load cushions of material suited to the particular application. Since the full load is transmitted through cushion compression only, there is no wear on the metal jaws. Lubrication is never required.

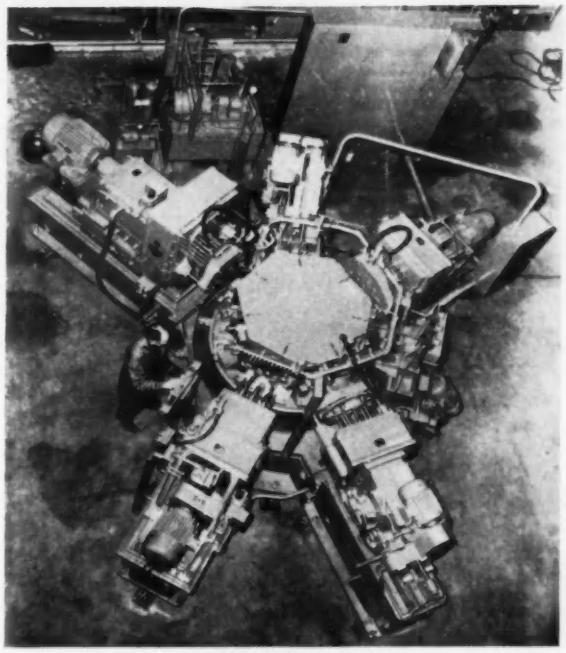


Pulling a removable jaw ring outward provides enough clearance for independent rotation of either end of the coupling. Simply by reversing a set of cap screws from one body to the other, connected machinery can be removed radially without disturbing power transmitting elements of the coupling.

Type CQ flexible couplings are available with maximum bores from 1⅜ to 5½ in. They range from 2.58 to 156 hp at 100 rpm. Type HQ maximum bores range from 1¾ to 8½ in., horsepowers from 7.77 to 810 at 100 rpm. *Lovejoy Flexible Coupling Co.*

**Circle 49 on postcard for more data**

## Carrousel Type Machine Designed to Save Space



*This new rotary-type machine built by the National Automatic Tool Company performs all the drilling operations on two different flywheels for a major automobile manufacturer. Fifty-four drilling, reaming, counterboring and tapping operations are performed at six machining stations. The star-shaped machine requires minimal floor space.*

**Circle 50 on postcard for more data**

A MAJOR automobile manufacturer has increased production efficiency with a new circular machine which performs all the drilling, reaming, counterboring and tapping operations on two different flywheels. Core of the machine is a seven-position rotary table surrounded by six machining units and one loading and unloading station.

Each flywheel is fastened vertically against the table side by a precision collet which expands through the center hole in the flywheel. As the table indexes, multiple spindle and single spindle drill units advance and drill 40 holes, ream 14 and counterbore and tap 6. Pushbutton controls enable the operator to select the operations necessary to machine either of the two flywheels. *National Automatic Tool Co.*

## Transistorized Control

TRANSISTORIZED dimensional control units are now available for use with various types of gage tooling to provide automatic control of plunge cut and internal grinding operation. Four basic models cover single or double-limit control of I D or O D grinders.

These units are capable of great accuracy and are compact, containing all the components formerly housed in separate enclosures. The use of transistors, instead of vacuum tubes, is not only responsible for the size reduction but has also improved reliability through longer operational life, lower power consumption and negligible heat generation. Each Control Unit is reported fail-safe both

pneumatically and electrically. Loss of either air pressure or electrical power automatically retracts the grinding wheel. Each unit has built-in testing facilities to permit rapid tracing and isolation of trouble independent of machine operation. *Federal Products Corp.*

**Circle 51 on postcard for more data**

## Industrial Control Relay

A NEW time delay relay has been designed to round out a complete line of control units which are specifically designed for application on machine tools and related equipment. It uses a solid state static switching timing element. Standard "On" timing ranges are 1/5 to 18 seconds, and 2 to 180 seconds. The timer is immediately recycling and dpdt load contacts are rated 10 amps at 115 V ac resistive with an expected life of 20,000,000 mechanical operations. *Struthers-Dunn, Inc.*

**Circle 52 on postcard for more data**

# NEW PRODUCTION and PLANT EQUIPMENT

## Vertical Boring Machine

ANNOUNCEMENT has been made of a new hydraulic feed, one-way 3-spindle vertical high-precision line-boring machine with 48-in. stroke. The first of these new units finish bores cam-shaft bearing holes, balance-hole, and crankshaft-bearing seats in V-6 and V-12 engine blocks. Arranged vertically, this machine is designed to be a real space-saver.

A hydraulic feed locates the engine block in the fixture, which upends to align the work holes with the boring tools. Before starting rotation, boring bars approach work in rapid traverse until pilot diameter enters the bore. Approach feed stops, spindle rotation begins, and the boring bars feed to full depth. After boring, tools retract and the indexing fixture revolves, discharging the block. Production rate is 15 blocks an hour at 80 pct. efficiency.

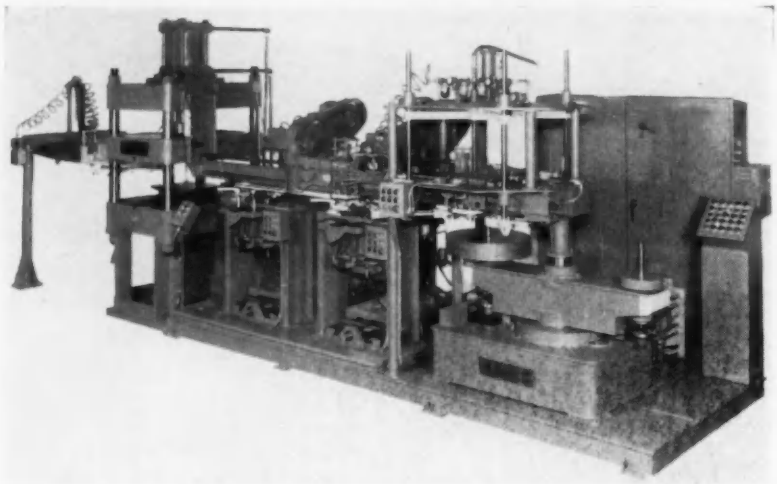
Tools enter the bores before beginning to rotate, since the long slender shafts would whip if not restrained. A time-delay switch allows spindles to reach full speed before feeding.

The machine has a massive cast-iron base and column for utmost rigidity. The head rides on vertical square ways, accurate enough to assure 0.0005 in. accuracy over the entire 4-foot travel. Counterweighted head assures positive feed and retraction at all times—head cannot drop accidentally in case of hydraulic failure. The 5-horsepower machine stands over 18 feet high. *The Foot-Burt Co.*

Circle 56 on Inquiry Card for more data

(*Turn to page* 90, *please*)

## New System Reported to Amortize Itself in 2 Years

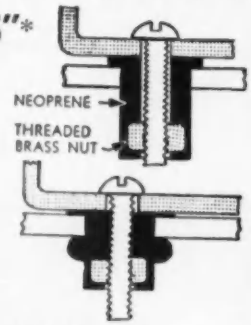


*A stator, rotor notching and parting system reportedly reduces labor costs substantially, and amortizes itself in two years. According to the manufacturer, the new system completely automatically holds and stores disks, transfers disk to stator notching press, transfers disks to rotor notching press, transfers disks to parting press, stacks finished parts and performs all operations simultaneously. Automation Machine and Equipment Co., Inc.*

Circle 57 on Inquiry Card for more data

Buy Bonds

Use "WELL-NUTS"* where assemblies must be air-tight, water-tight




The Well-Nut has all the good points of a perfect sealing fastener: fast, easy assembly . . . spaces and fastens simultaneously . . . accepts conventional threaded fasteners . . . dampens vibration . . . holds panels too thin for self-tapping or set screws.

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DYKEM STEEL BLUE®

Stops Losses making Dies and Templates

Popular package is 8-oz. can fitted with Bakelite cap holding soft-hair brush for applying right at bench; metal surface ready for layout in a few minutes. The dark blue background makes the scribed lines show up in sharp relief, prevents metal glare. Increases efficiency and accuracy.

Write for sample on company letterhead

THE DYKEM COMPANY

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CUT SCRAPER TIME

END NIGHT CLEANUP & MORNING REBLUING

DYKEM HI-SPOT BLUE No. 107 is used to locate high spots when scraping bearing surfaces. As it does not dry, it remains in condition on work indefinitely, saving scraper's time. Intensely blue, smooth paste spreads thin, transfers clearly. No grit; noninjurious to metal. Uniform. Available in collapsible tubes of three sizes. Order from your supplier. Write for free sample tube on company letterhead.

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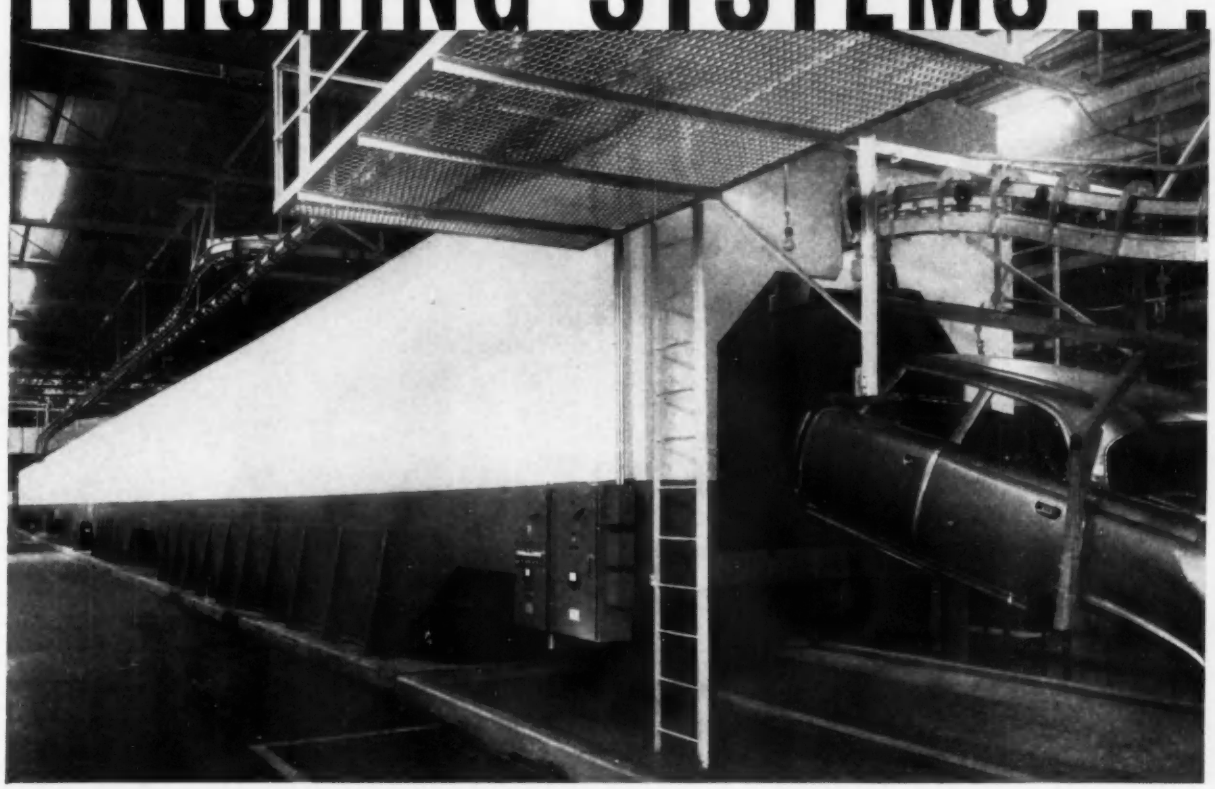
Circle 200 on Inquiry Card for more data

# FINISHING SYSTEMS . . .



Mahon Six-Stage Combined Dip and Spray Cleaning, Rust Proofing and Surface Preparation Machine.

## CHRYSLER of CANADA Installs New Antirust Facilities for BODY FINISHING—Including DIP PRIME COATING!

Primer Dip Tank—9000 Gallons of Water-Reducible, Rust-Inhibiting Primer. Bodies are Immersed to a Depth of 18" and are Soaked in this Rust-Proofing Primer for One Minute and Thirty Seconds.

In the new, conveyorized anticorrosion equipment recently installed by Mahon in the Windsor Plant of Chrysler Corporation of Canada, Limited, the bodies pass through seven operations of Cleaning, Rust Proofing and Dip Prime Coating.

In the first six operations of cleaning and surface preparation, which include a phosphate coating and chromic acid bath, the bodies are subjected to high intensity impinging sprays while immersed to a depth of 18" in the same chemical solutions maintained at prescribed level in long tanks. In the seventh operation the bodies are dipped to a depth of 18" into a 9000 gallon tank of water-reducible, rust-inhibiting primer—bodies soak in this armour-like rustproof primer for one minute and a half to ensure effective coating of all the metal surfaces which would otherwise be inaccessible in the complex configurations of unitized body construction.

When you consider buying a new finishing system, or any unit of finishing or processing equipment, you, too, will want to discuss methods, equipment requirements and possible production layouts with Mahon engineers . . . you'll find them better qualified to advise you, and better qualified to do the initial planning and engineering which plays such an important role in the ultimate operating efficiency of specially designed equipment of this type.

***See Sweet's Plant Engineering File for Information and Representative Installations, or Write for Catalogue A-660***

**THE R. C. MAHON COMPANY • Detroit 34, Michigan**

**Sales-Engineering Offices in Detroit, New York, Chicago, Los Angeles and San Francisco**

. . . the EXPERIENCE that goes into the PLANNING and ENGINEERING of MAHON EQUIPMENT is the item of GREATEST VALUE to YOU!

# MAHON



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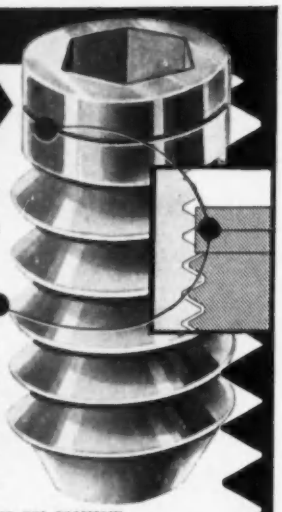
ideal for plastic and soft steel
eliminates need for precise tapping



NEW
crest-lok
self locking
set screw

*NEW LOCKING ACTION*
The locking action of the CREST-LOK consists of an unthreaded portion, a thread and a half high, at the crest of the Set Screw. The diameter at the crest is approximately the blank diameter. When the screw is inserted it compresses the crest of the threads in the tapped hole, locking the screw firmly into position . . . Precisely tapped holes are not necessary.
*You can control the amount of locking action* of the Crest-Lok by simply changing the tap drill diameter . . . Re-use does not appreciably affect the locking action. Available in any size headless Set Screw and in any special or standard point.
**Crest-Lok can be Hopper-Fed** with the Setko originated feeding system that brought *Automation* to Set Screw insertion. Experience has shown insertion rates can be increased many times through the Setko System.
*WRITE TODAY for full information* . . . and ask for Catalog 23 which describes the complete line of Setko Set Screws.

Set Screw & Mfg. Co.
16 Main Street, Bartlett, Illinois (Chicago Suburb)

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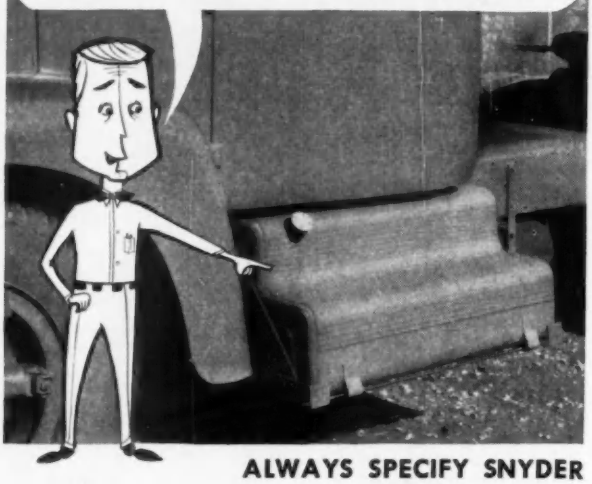
LET OUR QUALIFIED SALES ENGINEERS HELP YOU SOLVE YOUR FUEL TANK PROBLEMS.



ALWAYS SPECIFY SNYDER
Snyder Tank
CORPORATION
P.O. BOX 14, BUFFALO 5, NEW YORK

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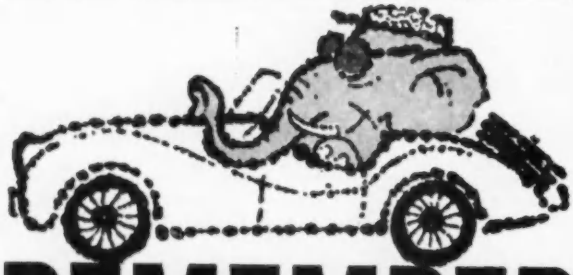

REMEMBER REEVECOTE
WHEN YOU SPECIFY COATED FABRICS
***Most complete line of coated fabrics for the automotive industry.*** Whatever you need in a coated fabric . . . whether it's resistance to high temperature, oil, abrasion . . . or flexibility at low temperatures . . . you can be sure there's a REEVECOTE designed to do the job best.
Choose from natural or synthetic rubber coatings. Get the protection of Reeves Brothers quality control. For better coated fabrics, specify REEVECOTE
REEVES VULCAN Reeves Brothers, Inc., Vulcan Rubber Products Division 1071 Avenue of the Americas · New York 18, New York

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Quantity
PRODUCTION
of
GREY IRON CASTINGS
ONE OF THE NATION'S LARGEST AND MOST MODERN PRODUCTION FOUNDRIES
ESTABLISHED 1866
THE WHELAND COMPANY
FOUNDRY DIVISION
MAIN OFFICE AND MANUFACTURING PLANTS
CHATTANOOGA 2, TENNESSEE

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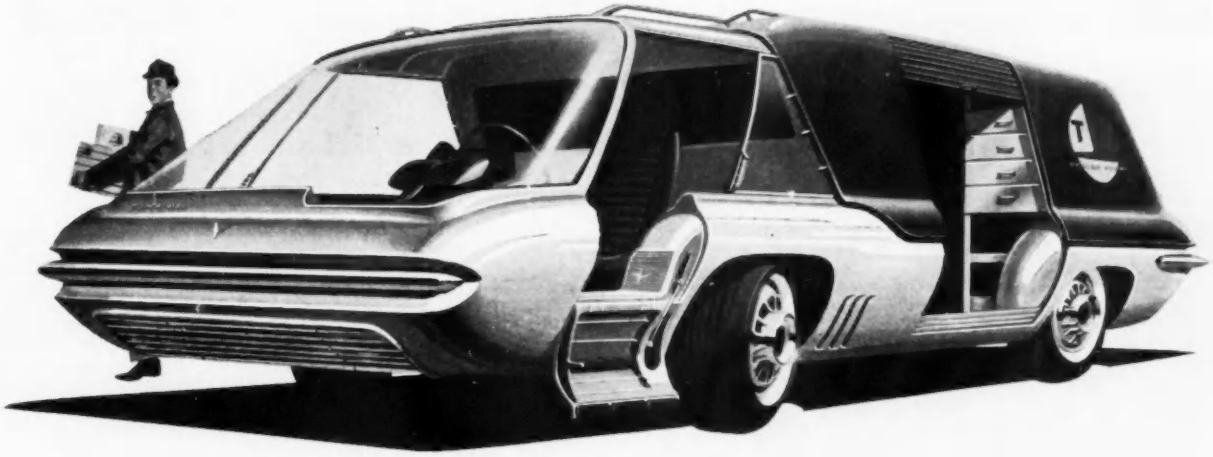
# stainless steel

No other metal has the strength, beauty and versatile qualities that serve you so well today and promise so much for tomorrow.

**There is nothing like stainless steel for THE AUTOMOTIVE INDUSTRY**



McLouth Steel Corporation,
Detroit 17, Michigan

*Manufacturers of high quality Stainless and Carbon Steels*

Look for the **STEELMARK** on the products you buy.

## McLOUTH STAINLESS STEEL



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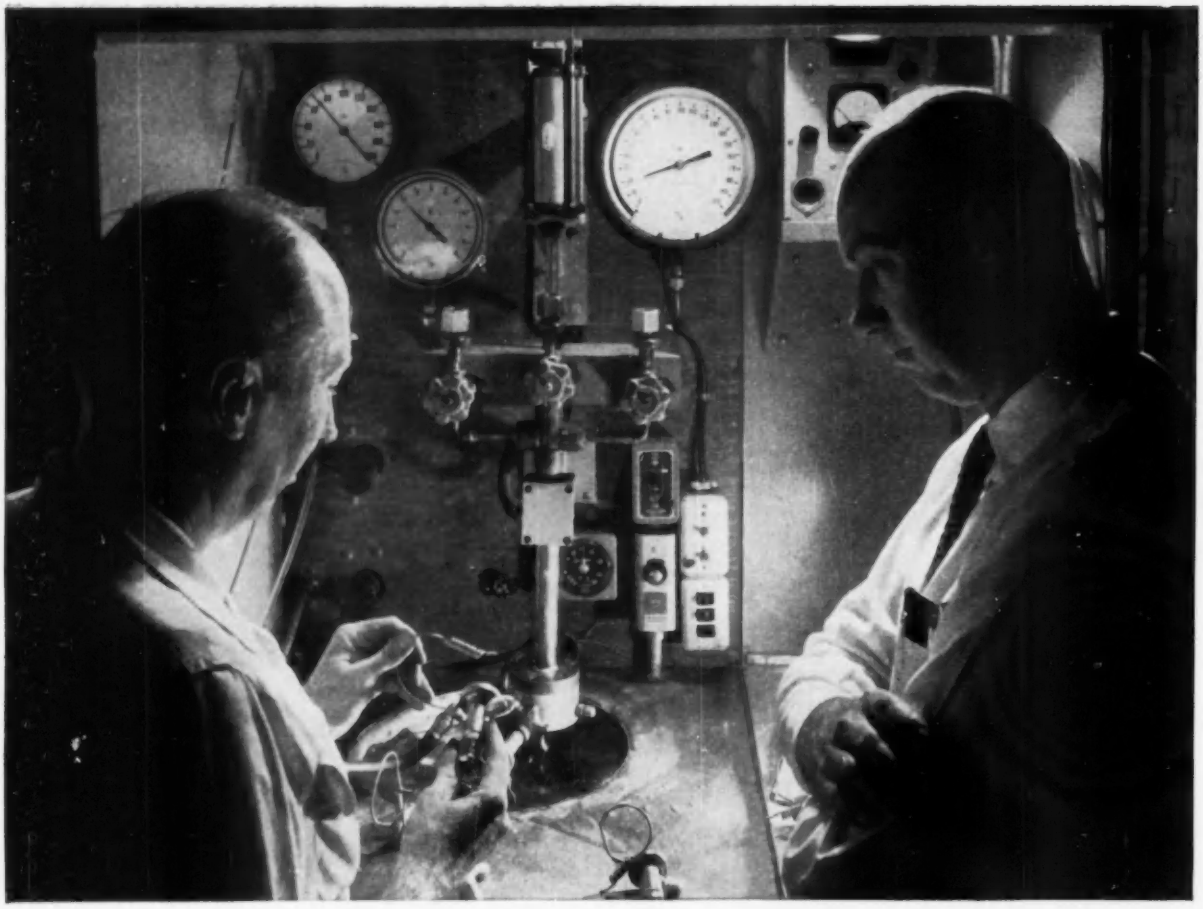

*Checking the test: Fred A. Frey, Manager of Quality Control, Heating and Air Conditioning Division.*

# ROAD-TESTING Air Conditioning Valves in 32° Water Shows up Trouble Before It Happens

The test begins with valves at room temperature. Their pig-tail thermal tubes have the valve wide open, because room temperatures are hot for a cooling coil.

The valve is lowered into the 32° water. Immediately it starts to close. The big outlet pressure gauge starts down . . . slowly. The operator watches for any rapid movements. If needle falls smoothly, comes to rest at a proper point, and holds steady, valve action is OK.

In our Milwaukee plant, each automotive air conditioning valve device receives at least 6 different checks in testing booths like above before shipment. Our Quality Control system gives us reason to be proud . . . and our customers, happy.

If you have a problem in automotive air conditioning controls, our engineers can help you. A phone call will put their experience at your command.

*These automotive air conditioner and automobile manufacturers rely on Controls Company of America's AP controls:*

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# 75-MILLIONTHS OF AN INCH BARRIER HALTS METAL MIGRATION

**JUST BENEATH THE FRESH OVERPLATE OF THESE F-M ENGINE BEARINGS (LEFT) LIES A TENUOUS DIFFUSION BARRIER.** Though this film of metal is only 75-millionths of an inch thin, it stops tin in the overplate from migrating into the lining metal beneath. Its presence is important to bearing overplate performance, particularly during the critical period of engine break-in. Maintaining uniform thinness as well as uniform composition of the plated barrier is most important . . . and most difficult to achieve on a production scale. Federal-Mogul research has developed a unique, extraordinarily precise method for controlling both the thinness and the metallic composition of this barrier, within narrow limits. And the performance of F-M engine sleeve bearings attests to the success of the method!

**RESEARCH INTO ELECTROPLATING** problems is a continuing project in the F-M laboratories. Unusual precision equipment and facilities are employed, many of which have been specially designed and engineered by F-M to solve problems of sliding-bearing application. As a result, Federal-Mogul engineered sleeve bearings, precision thrust washers, formed bushings, and low-cost spacers provide the finest possible performance characteristics for any application.

Have you a problem with bearings, bushings or washers? Are you considering the development or redesign of an item of the type shown above? We'll be glad to show you how the job can be done most effectively and economically. For information, write Federal-Mogul Division, Federal-Mogul-Bower Bearings, Inc., 11037 Shoemaker, Detroit 13, Michigan.

**FEDERAL-MOGUL**

sleeve bearings
bushings-spacers
thrust washers

DIVISION OF
FEDERAL-MOGUL-BOWER
BEARINGS, INC.



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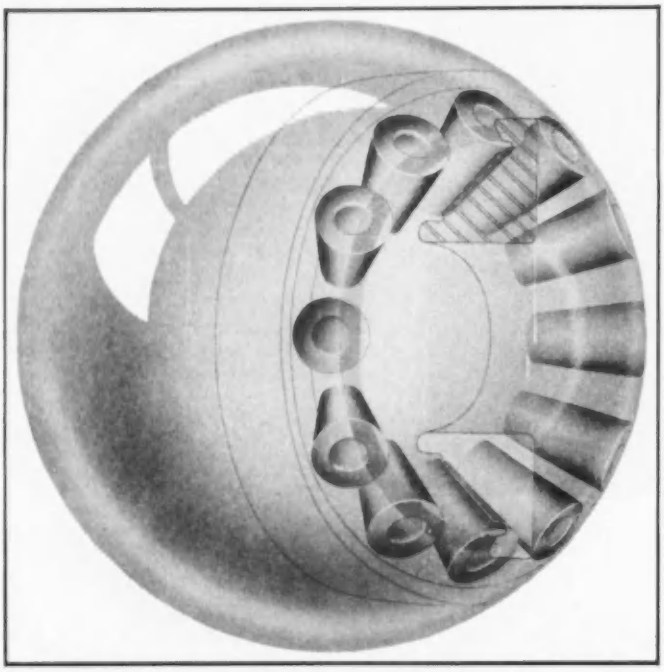
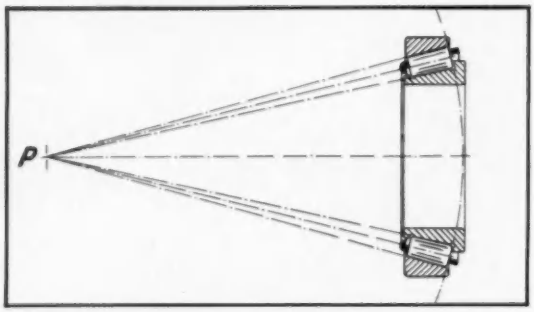
One in a series of technical reports by Bower

**BEARING BRIEFINGS**

# SPHERICITY—ESSENTIAL TO MAXIMUM BEARING PERFORMANCE



*When you require bearings, we suggest you consider the advantages of Bower bearings. Where product design calls for tapered or cylindrical roller bearings or journal roller assemblies, Bower can provide them in a full range of types and sizes. Bower engineers are always available, should you desire assistance or advice on bearing applications.*




True rolling of tapered bearing elements depends upon maintaining a true spherical radius during manufacture.

**For a tapered roller bearing to achieve maximum performance, i.e., maximum life and capacity under load, it must have true sphericity — a condition of bearing geometry which permits true rolling of the tapered rollers in the raceway.**

True rolling in tapered bearing elements is the result of maintaining a critical geometric relationship between the raceways and the contact surfaces of each roller. True rolling is essential to maximum performance. Without it, premature bearing failure is certain.

As engineers know, a tapered roller will describe a true circle when rolled on a plane surface. *It will always roll in this one path precisely, without sliding or skewing.* But to put true rolling to work in a bearing which can carry both heavy thrust and radial loads, it is essential that the rollers *and* the raceway have a true spherical radius, or sphericity. The drawing illustrates this condition.

If each roller in the bearing were to be extended in length, while retaining its taper, it would form a cone, terminating at point "P". All cones generated from all rollers would meet at point "P", which is also the center of the hypothetical sphere shown. The surface of the sphere would *touch all points on each roller's head!*

In effect, then, each roller's taper determines the radius of a hypothetical sphere whose surface, in turn, determines the correct contour for each roller head. Only when these conditions are satisfied in design, and when they are rigidly held during manufacture, will true rolling take place. In the manufacture of each Bower tapered roller bearing, sphericity is held within extremely narrow limits by means of special Bower-designed precision grinders. The consistent accuracy possible with these machines is one major reason why Bower roller bearings provide maximum performance under all speeds and loads up to the bearing's maximum rating.

**BOWER ROLLER BEARINGS**

BOWER ROLLER BEARING DIVISION — FEDERAL-MOGUL-BOWER BEARINGS, INC., DETROIT 14, MICHIGAN



Circle 138 on Inquiry Card for more data

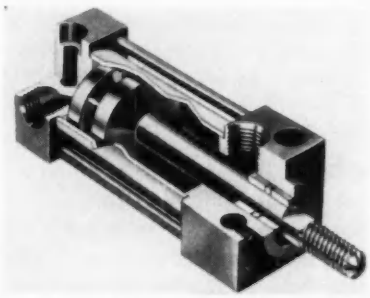
# NEW PRODUCTS
## AUTOMOTIVE-AVIATION

*FOR ADDITIONAL INFORMATION, please use reply card at back of issue*

By C. J. Kelly
ASSISTANT EDITOR

### Midget Air Cylinder

A new maximum 200 psi air cylinder, small enough to hold in the palm of your hand, is offered in ¾, 1 and 1⅛ in. bore sizes with standard strokes ranging to 12 in. in double-acting models, spring-return models also available. The square head series "S" Midget-Air is ideal for small force cylinder applications which demand compact size and mounting versatility. Four basic mountings are inherent in the universal design, with optional clevis and flange attachments available.



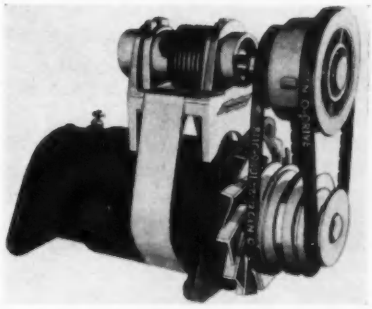
The one-piece piston and stainless steel piston rod are permanently brazed together to prevent loosening during operation. "O"-ring seals assure dependable service at all working pressures. Special seals can be provided if working pressures exceed 165 deg. F. *Hannifin Co.*

**Circle 62 on Inquiry Card for more data**

### Generator Overdrive

Gen-O-Drive is the name given a device which is designed to increase the output level of automotive generators at low speeds. Applications of this unit include use on vehicles where excessive battery drain is a problem due to sustained low speed driving or idling, or where extra electrical equipment, such as two way radios, demand extra current.

The Gen-O-Drive, entirely mechanical in operation, steps up the rotational speed of the generator armature when the engine is operating or idling at speeds under approximately 800 rpm. It has a ratio of 4.3 to 1. At a normal engine idling speed 480 rpm, the generator turns at about 2064 rpm. As the engine speed in-



creases the overdrive mechanism automatically shifts out so that the generator is again driven at its normal ratio of approximately 2 to 1. The unit is available in seven belt sizes: ⅜, ½, ⅝, ¾, 15/16, and 1 1/16 in. *Consolidated General Products, Inc.*

**Circle 63 on Inquiry Card for more data**

### Carburetor Valve

A newly developed valve, designed to end carburetor flooding, has a tip made from DuPont's new Viton. Resilient properties of the new material permit perfect sealing of the valve and seat despite the presence of contaminating particles in the fuel. Erosion and "pounding" of the valve and

seat sealing surfaces from engine vibration and fuel contaminants also are eliminated, the manufacturer reports.

**Circle 64 on Inquiry Card for more data**

### New Ignition System

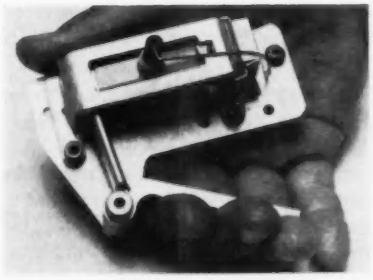
A totally new source of electricity for ignition systems has been developed for application on small gasoline engines.

The new device, smaller than a man's fist, contains two ceramic parts that convert a single, short motion into a 20,000-volt charge.

The manufacturer reports that in portable generators and other compact power equipment, it will perform a job that now requires a magneto, points, coil and condenser.

The first manufacturer to adopt the device is the *Clinton Engine Corp.* who is introducing it on a new engine in its 1961 line.

The device has been named "Spark



Pump" because it produces a spark each time pressure is applied to it. A Spark Pump, a switch and a spark plug constitute a complete ignition system for a small motor.

In addition to simplifying the ignition process, the Spark Pump produces a constant high voltage at all engine speeds. This means that many engines can be started with a single turn of the starting cord, without the need for complex starting mechanisms.

In tests, it was reported the Spark Pump has been able to fire a heavy spark through a spark plug even though the plug's electrodes were burned or fouled. A demonstration model of the Spark Pump, when squeezed with ordinary handshake pressure, generates a spark hot enough to jump across a quarter-inch gap. *Cleveland Graphite Bronze Div., Clevite Corp.*

**Circle 65 on Inquiry Card for more data**

# Observations

By Joseph Geschelin

## Magnesium Progress

Once again magnesium applications are on the move. The instrument cluster housing on the Lancer is a magnesium die casting, beautifully molded and with extremely light sections. One other make, this one in the General Motors family, has the entire instrument panel die-cast in magnesium. A one-piece casting, it is extremely light weight, thus contributing to overall weight reduction.

## Moving Bolster

Call it moving bolster or sliding bolster or rolling bolster, it all adds up to the new approach to the application of mass production techniques in the making of relatively short run stampings. First installation of its kind, developed by Clearing, has been in use at the Grand Rapids Fisher Body plant most of this year—1960. It has proved so successful that a number of large installations are being made right now, employing equipment developed by Bliss. This kind of press line appears to have the greatest cost reduction potential in stamping plants where a number of short run parts must be scheduled.

## Cutting Aluminum

We have had an opportunity to study a number of transfer machine lines on aluminum parts: V-8 die-cast cylinder block at AMC; the aluminum cylinder head for the Oldsmobile F-85 engine; the V-8 aluminum cylinder block at Buick; and the machining of a number of die-cast aluminum transmission covers at Detroit Transmission. All of this activity is new for 1961 product and all of it is new in plants where cast iron parts have predominated. These initial applications can be considered as experimental and subject to change and refinement as further experience is gained. Initially, each of the companies has learned that it is necessary to employ a heavy and high pressure flow of soluble oil mixture, not so much for cooling tools as to force the clinging chips off the tools and parts and machine elements. Process engineers are convinced that ultimately many of the cutting operations, particularly milling, can be done at fantastically high surface cutting speeds and feeds. At the moment, most of the milling operations on blocks and heads are in the area of 1200-sfpm, although we have noted some milling operations around 10,000-sfpm. Some of the variation is due to the nature of the alloy. High silicon alloys cannot be cut as easily as the more normal alloys. Further developments should be most interesting.

## Aluminum Heads

In the present state of the art the aluminum cylinder heads for the new GM V-8 engines are produced by a semi-permanent-mold technique. Doehler-Jarvis, on the other hand, is devoting considerable experimental effort to produce heads by die casting. What stops them on die casting is the intricate coring of the modern OHV head. One solution proposed by several experts, is to make the head in two or three sections, provided they find an acceptable method of adhering the sections permanently. This is reminiscent of the early research work done at the Alcoa laboratories in Cleveland.

## 12-12 Policy

Starting with initial production of 1961 cars and trucks all manufacturers in the passenger car field have published the new warranty of 12 months or 12,000 miles. Lincoln is the only exception and on Lincoln the customer gets a warranty good for 24 months or 24,000 miles. There have been some complications. For example, at the outset no one in the field seemed to know exactly what the customer gets free. It would be wise to clarify this with dealers before we amass some disgruntled car owners. From the standpoint of the factories this warranty depends entirely upon the local success of the Reliability programs placed in effect just before 1961 models were launched. To work properly reliability must be unfailing not only at the assembly plant but in all supplier plants as well. We hope the prime manufacturers find a full measure of success in this far reaching and exciting proposal.

## Foreign Labor

Although it is vital to preserve our high standard of living and the high labor rates that go with our economy, nevertheless it is also important to realize that we have to compete with extremely low labor rates all over the civilized world. We have touched on this before in the hope that labor statesmen would realize that nothing is gained by killing the goose that lays the golden eggs. Fact is that investment capital is fleeing to Europe. Just recently at the meeting of government officials in Bonn some bankers reported that more than $600-million of American capital has been invested in West Germany alone and that this contributes nothing to the U. S. balance of payments. This expert went on to say that "it's absolutely safe to say that American goods produced abroad this year will exceed our total export figures." Not only that but the American goods abroad will come back to the U. S. A. to compete with similar stuff produced at our high labor costs. "Money is not

patriotic," says this banker. It is about time this matter is considered seriously. If new labor contracts continue to extort more wages and more fringe benefits, we shall be in trouble. One effect of this situation, in fact, may be in a reduction in employment as a permanent thing. The situation demands real statesmanship and cooperation. We are all in the same boat.

## Cain's Mark

. . . "the mark of Cain" is how one editor expressed his views on motor car safety in the lead editorial of a well-known technical magazine recently. By coincidence another publication in the same field had a lead editorial in an issue of the same date, on the same subject. These are not industry publications, although they are both widely circulated in our industry. From their vantage point they had the impulse to indict the motor vehicle industry and its engineers for producing cars that contribute to killing on the highways.

Spokesmen for the industry detect the reason for their concern, although it would take a crystal ball to know the real reason. One thing is obvious to the writer and that is—they have made no effort to reach engineers or the AMA safety committee to learn just where we stand on safety.

For example, one editorial says "each year autos kill more people than we lost in Korea." "But doors still pop open at the slightest crash, the steering shaft and visors are still hazards . . . our cars are Juggernauts." The other magazine nails the lid down even more firmly: "If the coffins filled by auto accidents during the 1950's were laid end to end, they would reach 479 miles."

Let's quote some more . . . "high tail fins, wraparound windshields, pushbutton transmissions, swayback driveshafts, and other new features are sold each year. How then can it be so difficult to sell seat belts, padded dashboards, and other safety features." "Safety can be sold—it must be standard—it cannot be optional." According to the news release promoting this editorial effort in one of the publications the statement is made . . . "that the public has a right to expect the auto industry to apply available engineering knowledge if it will result in a safer product. . . . The electrical industry does

(*Turn to page 77, please*)

# Meet the AI By-Liners

**A brief biographical sketch of the editors and contributors to AI whose by-lines appear regularly**

## *Introducing* Jane Livingston

IN THIS issue of AUTOMOTIVE INDUSTRIES magazine, starting on page 141, is found "The 1961 Products Guide." Publication of this Guide in the December 15th issue has been an annual feature in AI for the past two years—1959 and 1960. Prior to that, this extensive Directory was published semi-annually as a separate book, entitled the "Chilton Automotive Buyer's Guide."

MISS JANE LIVINGSTON, pictured above, has been editor of this compendium since 1934—a period of 26 years on the job!

And actually, that is only half the story—for Jane has been with Chilton almost twice that long. She first came in 1912, thus having a continuous total service record with Chilton amounting to 48 years!

Her duties consist in finding from various sources items that are automotive in nature; mailing out a listing form to the manufacturers of such items; classifying the information received, by product; and inserting in the Products Guide for publication.

This collecting, classifying, collating, and up-dating of thousands of items which are constantly in a state of change requires the year-round occupation of Jane and her staff.

The "1961 Products Guide," as included in this issue, differs from the old separate-bound "Buyer's Guide." The new, caters exclusively to the *original-equipment* automotive trade. The old catered as well to the *replacement* automotive trade. The new is therefore more specific to AI readers.

It is an invaluable Buyer's Directory for design and production executives, listing information on parts and components, production and plant equipment, and materials and supplies—in the Automotive Industries.

Miss Livingston's personal interests center in youth and women's groups in the Presbyterian Church, and gardening.

**A reindeer brings you Season's Greetings when you write to**

***SANTA CLAUS***

*(specialist in world peace)*

# A Field Engineer brings you profitable ideas when you write to *LINCOLN*

*(specialists in arc welding)*

WRITING to Santa Claus is an exciting experience for the whole family. Eager faces . . . pencilled lists . . . crackling fire . . . and the air alive with expectancy. And then the long, almost unending wait until Christmas, when miraculously St. Nick generally delivers even a little more than was desired. This is why we have faith in him. That's the spirit of Christmas!

Now, we don't say our Field Engineers will arrive in sleighs filled with toys, but this we can guarantee: if you write a letter to LINCOLN, the Field Engineer who calls will be able to give you a good deal more help than you expected. Not only does he know welding products but also the best procedure to use on each job. He understands how to relate welding profitably to your total manufacturing operation.

That's why so many companies who have had faith in LINCOLN for over fifty years say, "It's a good idea to do business with LINCOLN where arc welding is a specialty and cost reduction comes to you as a 'plus' at no charge."

Merry Christmas!

**THE LINCOLN ELECTRIC COMPANY**
Dept. 1760 • Cleveland 17, Ohio

**LINCOLN WELDERS**



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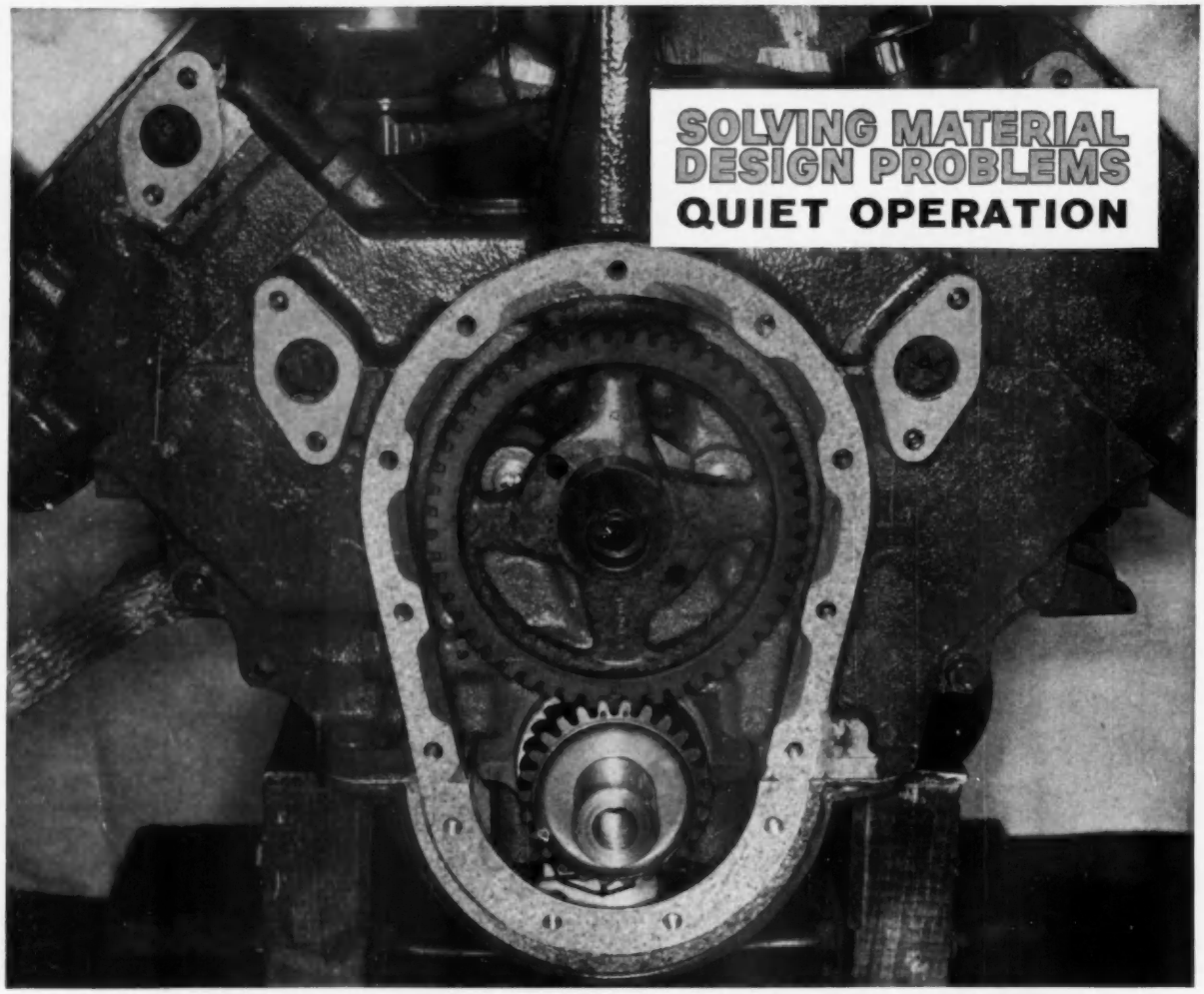



**Timing gears made of CDF Celoron** will not pick up and amplify sound due to Celoron's naturally low tone frequency. Tests show that Celoron gears reduce noise by up to 50% compared to all-metal gear sets!

Made of quality controlled, fabric reinforced phenolic resin, Celoron® high-impact gears are constantly replacing metal in critical areas ranging from earth-moving machinery to compact cars to movie projectors.

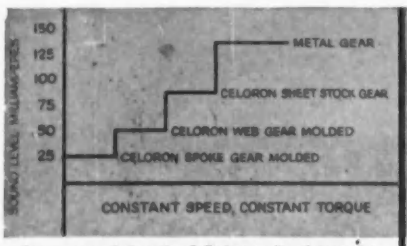
Celoron molded materials are only one family of products from industry's largest selection of non-metallic structural and electrical materials . . . including thermosetting laminates, vulcanized fibre, silicone rubber, and mica.

This wide choice gives you every assurance of meeting your exact quality and cost needs in plastic material. Refer to Sweets PD file or write to us for the latest Celoron catalog.

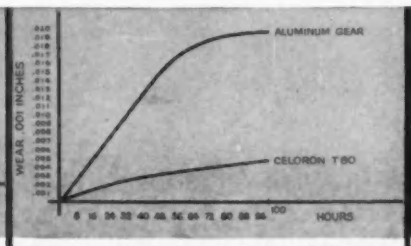
# CONTINENTAL-DIAMOND FIBRE

**A SUBSIDIARY OF THE Budd COMPANY • NEWARK 2, DEL.**

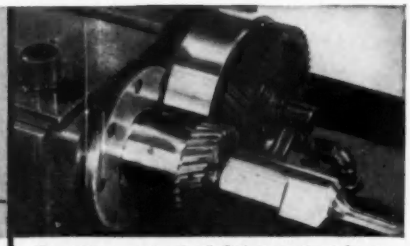
In Canada, 46 Hollinger Road, Toronto 16, Ont.



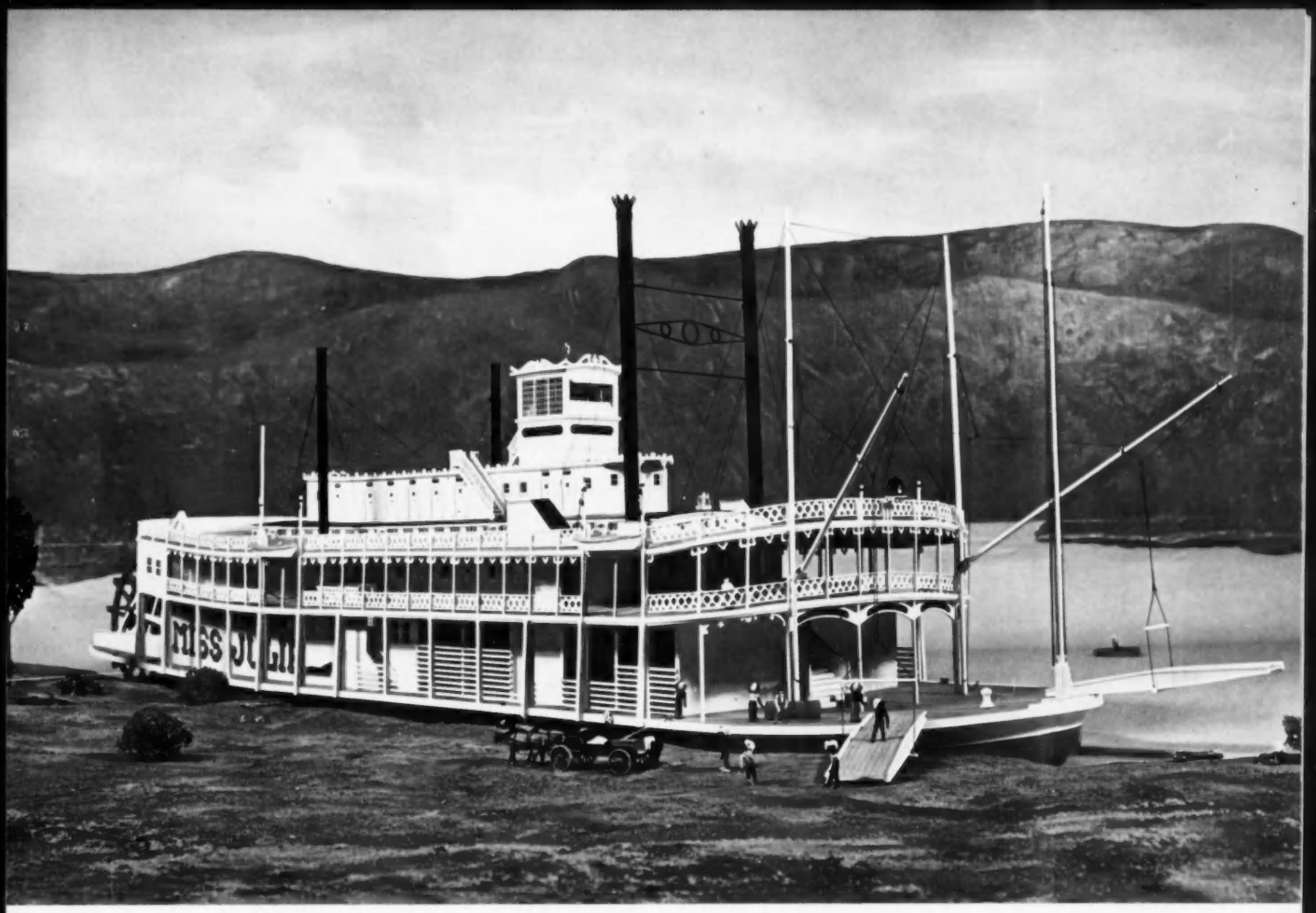

**Low sound level** of Celoron is shown by this graph which compares metal to the different types of Celoron gears.




**Long wearing** characteristics of Celoron gears are here contrasted to the shorter life spans of metal-made gears.



**Quality control** of Celoron gears is assured by special testing machines such as this in CDF laboratories.




# OHIO Special Quality Tubing makes muscles that never tire

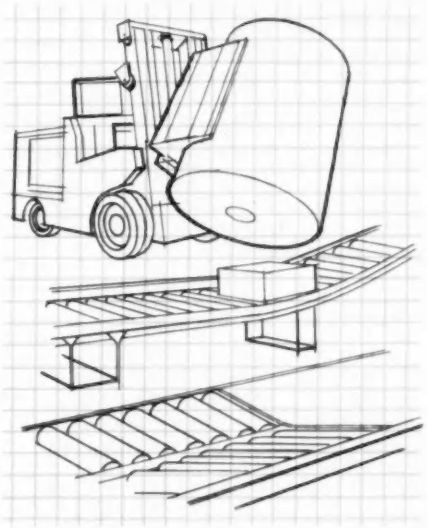
Strength, weight and cost advantages of OHIO Special Quality Tubing make it ideal for use in materials handling equipment — the modern lift trucks, belt and roller conveyor systems that provide the heft and muscle to move materials.

You can strengthen your product, too, if you weigh these important facts. OHIO Tubing is always the exact tubing you need because OHIO Tubing is CUSTOM MADE for your product. Your order is manufactured to your own specifications to produce steel tubing especially for your application — the precise grade, analysis, size, shape, special anneal and tolerances best suited to your needs.

Ohio Seamless Tube produces both seamless and electric welded steel tubing — is prepared to form many finished or semi-finished tubular parts to your designs.

To get the most from your next steel tubing order, specify OHIO Special Quality Tubing. Contact your nearest Ohio Seamless representative, or send part drawings to the plant at Shelby, Ohio — Birthplace of the Seamless Steel Tube Industry in America.

A-3281A



Model illustrated built to 3.5 mm scale.

OHIO

**OHIO SEAMLESS TUBE**

*Division of Copperweld Steel Company* • **SHELBY, OHIO**

*Seamless and Electric Resistance Welded Steel Tubing • Fabricating and Forging*

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CANADA: Railway & Power Engr. Corp., Ltd. EXPORT: Copperweld Steel International Company, 225 Broadway, New York 7, New York

**BREAKTHROUGH IN METAL FINISHING! NEW OSBORN MASTER BLEND* BRUSHES** . . . a totally new kind of power brush . . . in construction . . . in the unusually wide range of metal finishing jobs it can accomplish . . . in extra service life. You have never used a power brush like this before! • MASTER BLEND features fast-action straight wire cutting points blended with a tough plastic bond. Result: an exceptional precision power brushing tool that goes far beyond any brush you've ever used • Keeps its sharp profile for precision control over the working area throughout its long service life. Won't flare out • Scores big advantages over other accepted finishing methods. Can't rip or tear. Won't load up • Has extraordinary cutting power. Edge-blends and deburrs perfectly. Peening is kept to an absolute minimum, and—in many cases—is entirely eliminated. No compound required • Finishes more parts per hour, more parts per brush. Two years of research and on-the-job tests proved it. MASTER BLEND will outperform . . . outlast . . . any other power brush available. **FREE BULLETIN MB-100** includes MASTER BLEND Brush sizes, types, applications. Write or call *The Osborn Manufacturing Company, Dept. E-93, Cleveland 14, Ohio. Phone ENdicott 1-1900.*

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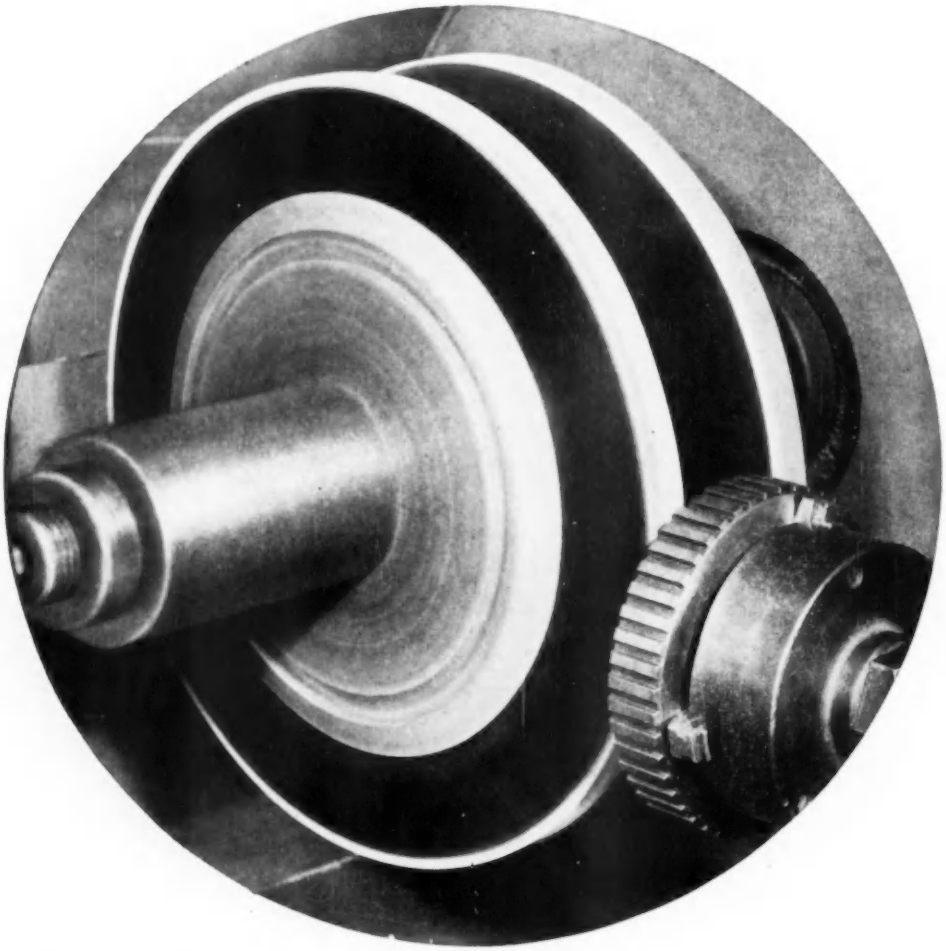
# breakthrough

Metal Finishing Machines . . . and Finishing Methods
Industrial Brushes • Foundry Production Machinery

OSBORN



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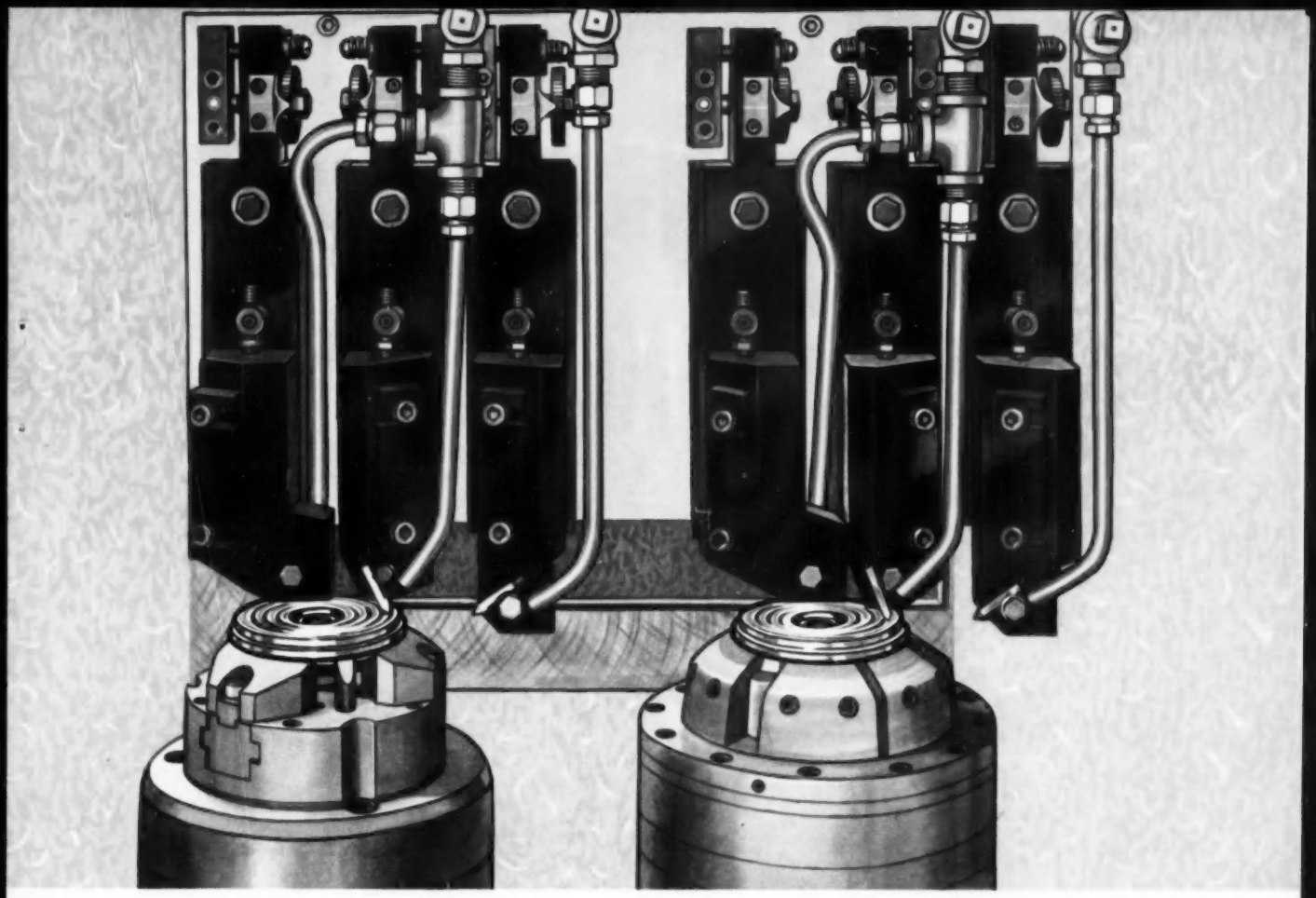


# New Britain's new concept for contour turning and boring

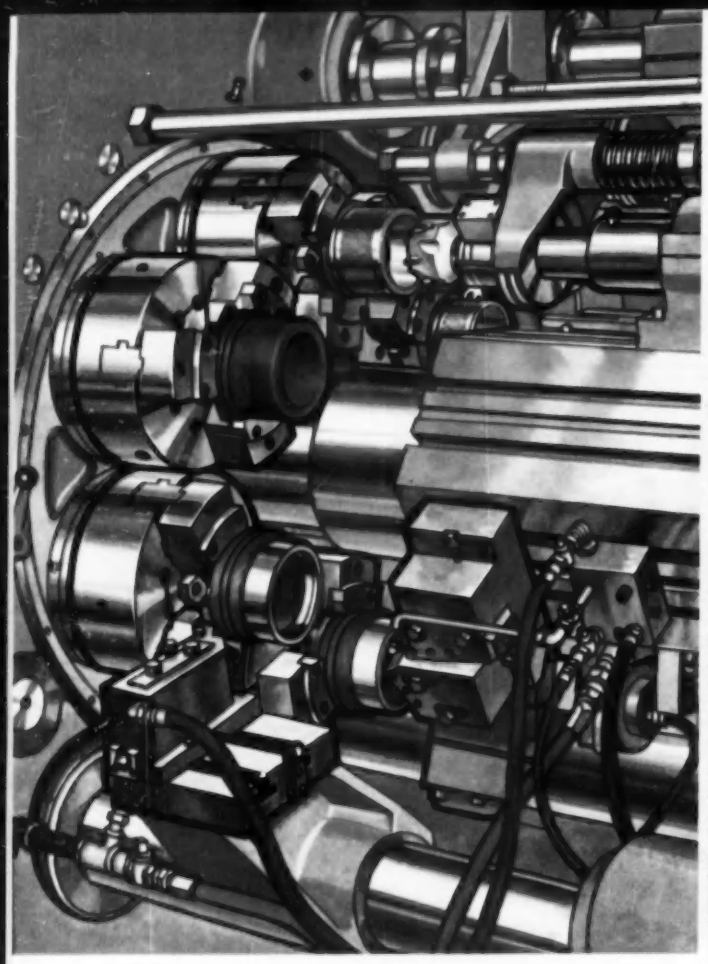
Beyond a certain point, continued refinement of existing designs in machine tools ceases to make an appreciable contribution to performance. Thus in designing our New Series of Vertical Precision Boring Machines, we have incorporated several completely new design concepts to provide improved performance and greatly increase over-all usefulness.

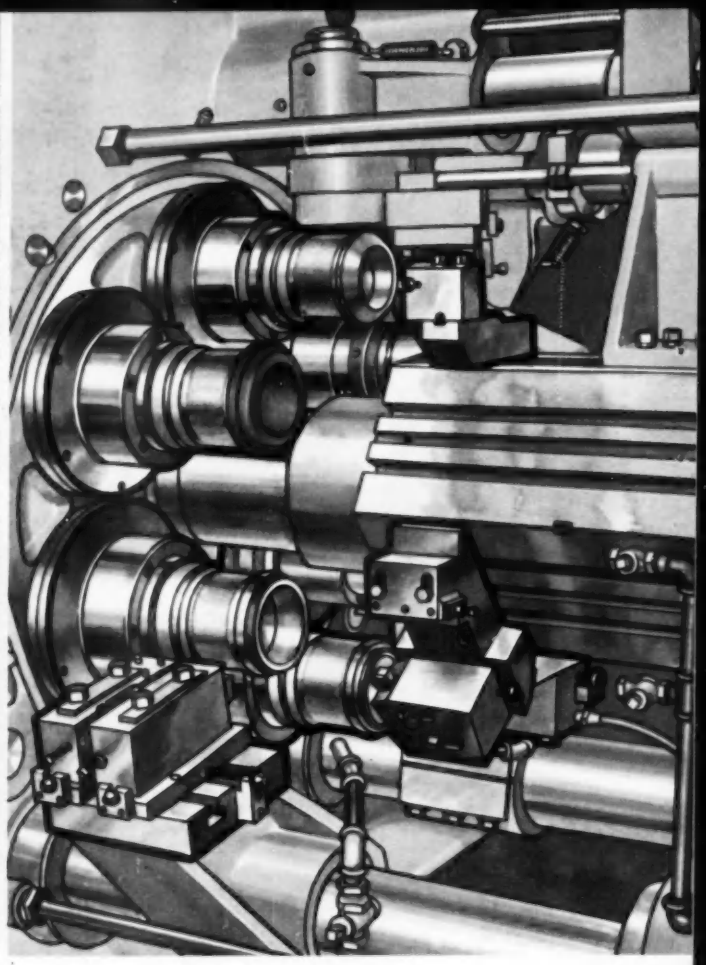
For the first time machines of this type can be used as building block units. Their clean-sided design permits any number of self-contained machines, each with one or more spindles, to be arranged side by side and operated as a single unit. They also may be operated with equal efficiency as individual machines. Parts can be inverted on adjacent machines or on adjacent spindles of the same machine.

In order to take the fullest advantage of the precision inherent in cam control, long linkages between cams and slides have been eliminated. A pair of cams is mounted on a common shaft which is carried *within the vertical slide*. Since all slide actuating forces are contained in the vertical slide, both cams are directly adjacent to the slides they control and no outside forces are imposed on the slide ways. The result is maximum rigidity for heavy cuts coupled with extreme accuracy for close tolerance work.

This unique and eminently workable approach to contour turning and boring results in the highest order of accuracy on even the most complex pieces. Your New Britain Representative can give you details on the nine different models available in this series. For catalog material, write The New Britain Machine Company, New Britain-Gridley Machine Division, New Britain, Conn.

**THE NEW BRITAIN MACHINE COMPANY**
**New Britain-Gridley Machine Division - New Britain, Connecticut**





# New Britain . . .
# still the best Chucker you can buy

We're not unhappy about the fact that for years, in many plants, the name New Britain has been synonymous with chuckers. New Britain Chuckers have turned out literally millions of pieces of work for practically every major industry in the world. This is less important to the prospective buyer of one of these machines, however, than the capabilities of these machines today. How do they stack up against other chuckers or even other types of machines capable of doing similar work? Pretty well, we think.

New Britain's open-end design still can't be beat for unlimited accessibility to the tooling area. This same wide-open feature makes it doubly more practical to adapt these machines to automatic loading and unloading.

The unusual combination of longitudinal and transverse forming motions is another unbeatable New Britain feature. The massive forming arms on New Britain Chuckers allow heavier cuts and cuts of much greater complexity. This ability to do more work can eliminate the need for second operation machines in many instances. For really complex work, two chuckers set up side by side, as shown here, each doing one side of the piece, can smooth the way for high production. Less complicated work can be set up to perform both sides of the same piece on a single machine.

These massive machines provide the tooling combinations, spindle speeds and power to perform the widest possible variety of work. Their basic design will stay new for years to come, continuing to provide profitable operation. You may know New Britain Chuckers, but you may not be fully aware of the improved series presently being offered. Why not call your New Britain Representative or contact us at The New Britain Machine Company, New Britain-Gridley Machine Division, New Britain, Connecticut.

**THE NEW BRITAIN MACHINE COMPANY**
**New Britain-Gridley Machine Division · New Britain, Connecticut**

## OBSERVATIONS

( *Continued from page* 69)

not ask the public if it wants insulation on its wires."

What is the solution?

One, according to one of these publications, is to listen to the recommendations of Cornell and other colleges. The other, from the second publication, is to adopt such measures as: padded dashboards, recessed fittings, pop-out windshields, collapsible steering columns, seat belts, the addition of a roll bar or some form of reinforcement for the roof of hardtops and convertibles, etc.

We would not attempt to summarize the scores of articles on safety that have appeared in newspapers and industry publications —lengthy releases from the car companies, SAE papers, AMA reports, and others. The story of safety has been told and retold. The industry has spent many millions of dollars in safety research —and this work is continuing. There is an amazing story on structures design, stress analysis, computer studies, etc., designed to produce a strong protective environment for the passengers in the car. Just a few years ago Ford laid out some millions of dollars on a safety program, and came out with accessories such as padded instrument panels, padded visors, and seat belts. Other manufacturers have offered similar packages. But the public will not pay the price for these items. And the manufacturer cannot make them standard equipment without penalizing the cost of the car. In fact, many people have expressed themselves in no uncertain terms about the high cost of cars as they are.

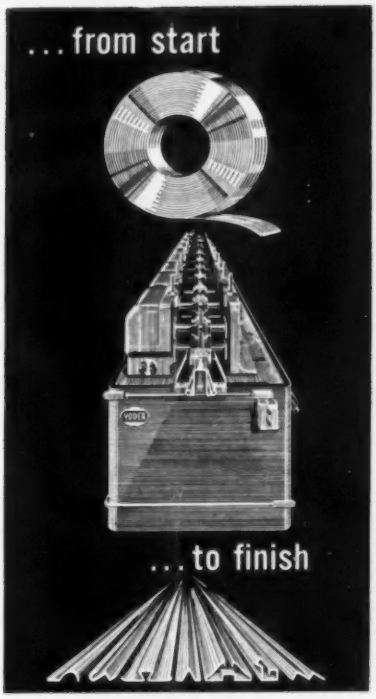
One of the problems is that even if you sell seat belts, assuming they are the answer, how are you going to make the passenger use them. And we are not as sure that seat belts are the answer.

A simple review of current car design will show that the present cars, as well as earlier generations of cars are about as safe as they can be made. They have greater visibility, they have power steering and power brakes to relieve the driver of the mechanical effort of driving. Most cars employ automatic transmissions to eliminate the burden of shifting. We have the best road lighting that is available in the light of present knowledge. We have safety glass. Except for the foreign cars all cars have plenty of engine power to provide for safe passing where passing is safe. We could go on and on cataloging the safety features built into the car.

Your editor has been driving for over 30 years. This year we had two crackups In one, a car driving in the lane to the right made a sharp left turn in front of moving traffic—that was yours truly in the left lane. More recently, we had a more complete wreck. Driving in a city street with no traffic in sight, we ran into a car that went through a "stop" sign at high speed. Serving as the Dummy" in this instance we learned about structures. Picture the entire front end pushed in. It was just like driving my car into a brick wall at say 30 mph. Sheet metal and everything else collapsed. But with the aid of Providence and the body structure of one of the top priced cars in the industry (I won't mention the name) I came through with a swollen left hand, several rib bruises, and an addled head that stayed addled for a week. No doors opened, the steering column and the wheel stayed put. In short the interior was insulated from damage.

This brings me to my pet peeve. And I have talked about this for years. Accidents are caused. Some are almost an act of Providence and simply can't be avoided. You can visualize them yourself. But there are others, the larger numbers in the main that depend upon law enforcement. Something has to be done to keep people from popping through red lights and stop signs. Car design can't do it. Something has to be done about the slow driver on a fast highway. And that goes for the tiny foreign cars that can't get away from a traffic light. You can see a constant stream of cars filling the vacuum ahead of slow cars on a busy highway during the rush hour.

Personally we are opposed to


**YODER ROLL-FORMING EQUIPMENT**

Profits are available to you through the production of many shapes in metal... made with precision and economy on Yoder Cold Roll Forming Equipment.

Produce tubular, ornamental or structural shapes from a variety of metals in widths from a fraction of an inch up to 80 inches or more, and in stock up to ¾" thick. Your investment is comparatively modest, and with proven low operating costs, will give you one of the most profitable operations in your plant.

Experienced Yoder engineers will, without obligation, study your annual metal forming requirements. Many times they can point out that the installation of roll forming equipment would—even if operated only intermittently—soon justify its initial cost.

Send today for this comprehensive, 88-page illustrated text. It fully describes Cold Roll Forming Equipment, processes and products.

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ENGINEERING YODER MANUFACTURING COLD ROLL FORMING MACHINES

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compulsory inspection of cars. But why do police permit cars on the road that have wrecked sheet metal or none at all, with cracked windshields, with only one headlamp, with body sheet metal rusted away at the rocker panels to the extent that nothing is really holding the body on the frame? Why are people permitted to drive without minimum insurance protection? How good are the brakes on a car that has fenders pushed in or missing, that has the front grille out?

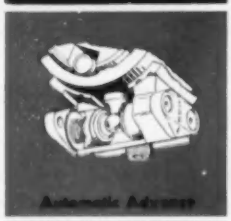
How can you design protection against drivers whose license has been revoked but who are still behind the wheel? How do you protect against poor vision, particularly against color blindness or lack of peripheral vision? How do you protect against incipient heart attack?

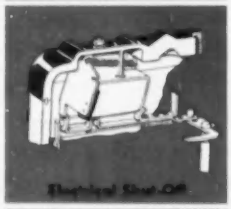
Good sense is needed here. It is a fact no matter how soundly a car is designed and built, it is the driver behind the wheel that has the final responsibility. So much attention has been devoted to whipping designers that only a few have given thought to making driving safe on the streets and highways. A kindly judge hesitates to revoke the license of a man who earns his living behind the wheel. How often does this result in turning a potential killer loose? To get me or you?

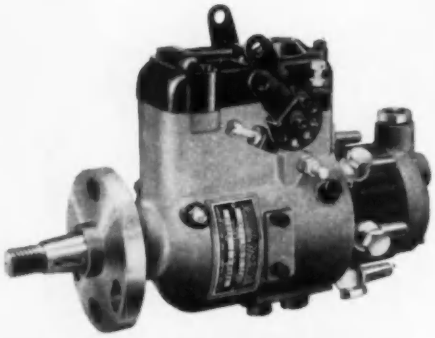
Consider another thing. The very people who engineer the cars and build them drive their own product. Not only that, their wives and children drive these cars. Does this show any lack of confidence in the safety of these cars? Let's have some common sense. Let's place the blame where it belongs. Let's not look at the car as a dangerous tool that will rear back and kill you.

Above all, let's resolve that before anybody writes about safety, particularly if it is a technical writer, that we check first with people who know so we may be informed as to the state of the art. ■


A few accessories that add versatility:





ROOSA MASTER

*Most Versatile*

FUEL INJECTION PUMP

Diesel engine manufacturers, their designers and engineers are specifying ROOSA MASTER because they know that it is the most versatile. There are many reasons for selecting this pump. Here are just a few:

- **VERSATILE** because of the variety of built-in, space saving, accessories demanded by modern diesel engine design. Roosa Master can provide more compact, lower cost, complete units to meet many different applications.
- **VERSATILE** because only one size pump serves either a 2, 3, 4, 6, or 8 cylinder, 2 or 4 cycle, small or large displacement engine . . . and only Roosa Master can be mounted vertically or horizontally.
- **VERSATILE** because it is applicable to automotive, construction, farm, generator, marine and stationary equipment guaranteeing dependable, economical service. Write for further information.

HMS ROOSA MASTER makes good diesels better

HARTFORD MACHINE SCREW CO., HARTFORD 2, CONN.
*DIVISION OF STANDARD SCREW COMPANY*


### Goodyear Net Down

Goodyear Tire & Rubber Co. sales in the first nine months were about the same level as in the 1959 period but earnings were moderately lower, E. J. Thomas, chairman, announced. Both sales and earnings were the second highest in the company's history. They were exceeded only by record results in 1959.

Sales for the nine months were $1,184,526,548, a decrease of 1.6 per cent from the previous record of $1,203,521,622 last year. Net income amounted to $52,899,557, a decrease of 10.2 per cent compared with $58,917,842 earned in the first three quarters of 1959. Net income this year was equal to $1.59 a share compared with $1.77 in 1959.

### Van Norman Sales Rise

Increased sales and earnings for nine months have been reported by Van Norman Industries, Inc. Nine-month sales totaled $38,126,074 compared with $32,593,592 last year. Net income was $731,507, or 77 cents a share. The 1959 figures were $712,349 and 45 cents a share.



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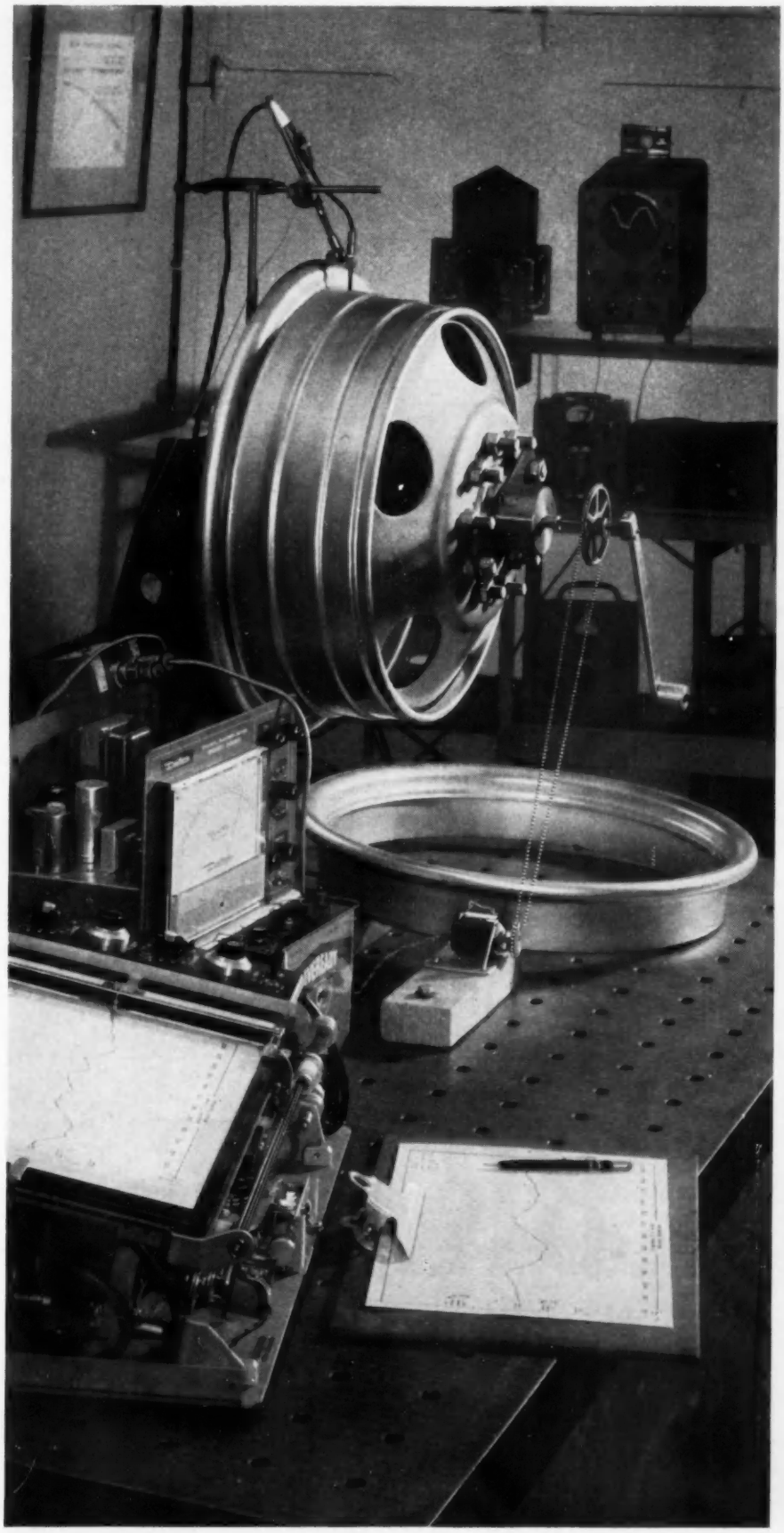

# proved truer running easier on tires

Proved over millions of ton miles, the Kelsey-Hayes three-piece truck wheel provides more uniform tire bead support and uniform stress distribution which reduces rim fatigue! It is quieter and smoother running. And our unique lock ring construction affords fool-proof "blow-off" protection.

Component dimensional accuracy held to closest tolerances in the industry (here being checked in our lab) and advanced wide-base design are reasons why it is becoming the preferred design for commercial vehicles. Millions are now in service. Kelsey-Hayes Company, General Offices: Detroit, Michigan.

**KELSEY HAYES COMPANY**

**World's largest producer of automotive wheels!**

*18 PLANTS: Detroit and Jackson, Michigan; Los Angeles; Philadelphia and McKeesport Pennsylvania; Springfield, Ohio; New Hartford and Utica, New York; Davenport, Iowa; Windsor, Ontario, Canada.*

**K H**



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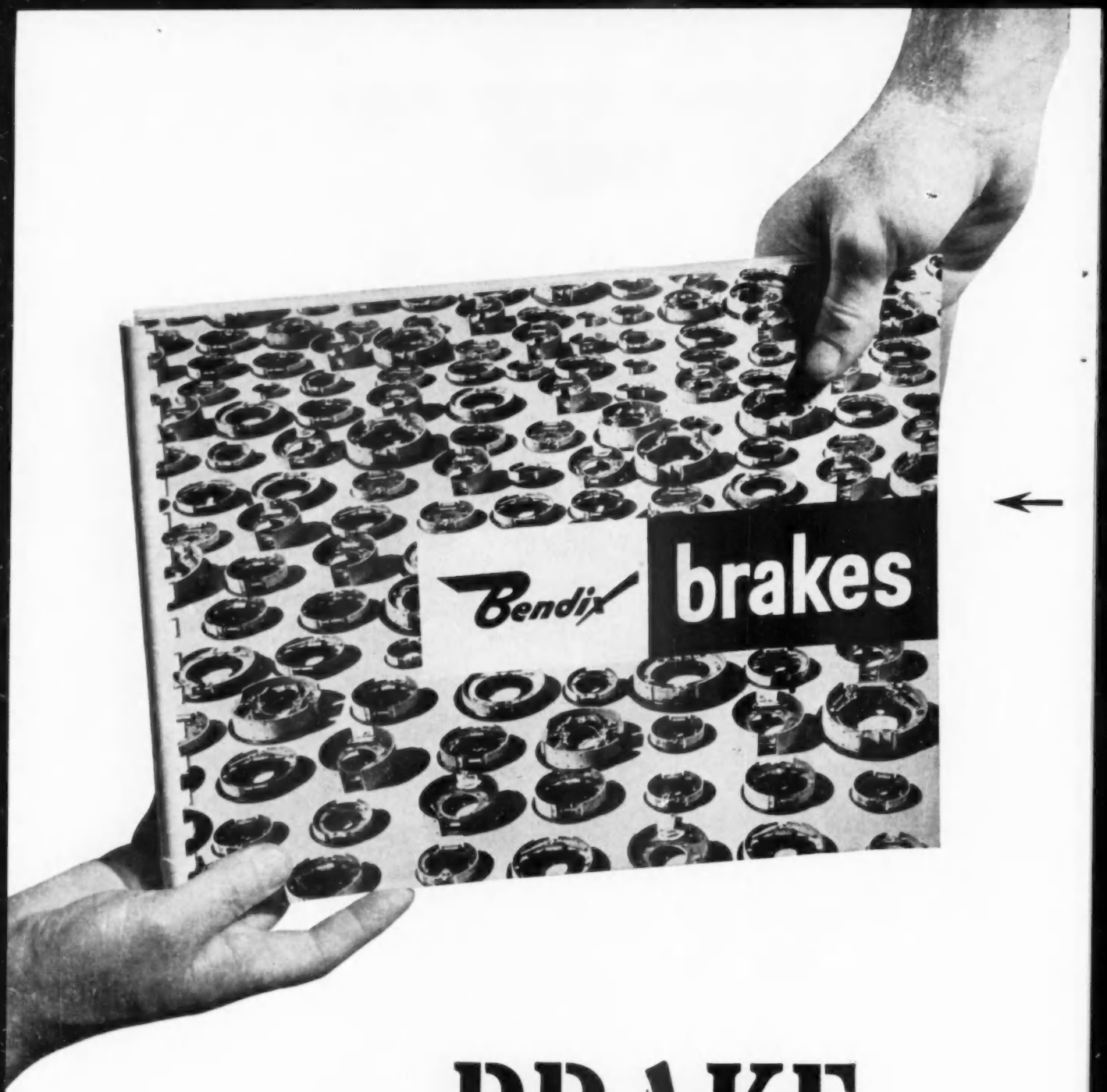


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# GET YOUR FREE COPY OF THIS AUTHORITATIVE, NEW 82-PAGE BRAKE CATALOG

Brand-new from Bendix—brake headquarters of the world—this valuable, *free* reference book for brake engineers! The book's 82 pages distill 40 years of Bendix brake experience and discuss the engineering features of:

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Brake engineers will appreciate the logical arrangement of vital data on sizes, loads, torque capacities, and lining area, as well as complete installation information. You can depend on this data from Bendix engineers, who have developed more brakes for all types of vehicles and for other applications than anyone else in the world—supply is limited—send for your free copy now.

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Shows brakes for virtually all applications

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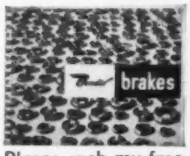


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Please rush my free copy of "Bendix Brakes".

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## Everything you want in Multiple Nut Setters...

## *and more!*

Speed production, multiply profit on any assembly of two to twenty-two nuts or screws. Thor multiples are custom engineered to your exact assembly situation. All fasteners are secured simultaneously to identical torque. Thor multiples can be engineered for any pattern, any product. Thor multiples are now in use in the assembly of such widely diversified products as floor mops and carburetors. Write today for Thor's complete automation manual on multiple fastener settings.

Thor Power Tool Company, Aurora, Illinois. Branches in all principal cities.

Thor POWER TOOLS



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## News of the
# MACHINERY INDUSTRIES

(*Continued from page* 55)

### Brown & Sharpe Offers Modernization Incentive

As a means of stimulating modernization of plant facilities producing screw machine parts, Brown & Sharpe Mfg. Co. announced last month a new plan to help owners upgrade their automatic screw machine equipment.

The company is offering a trade-in allowance of $500 for each old B&S automatic screw machine, regardless of age or condition, against the purchase of each new B&S automatic screw machine. This offer applies only in the U. S.

It is the company's intention to return the traded-in machines to its main plant in Providence for use as scrap metal.

### Research Shows Gains From Hi-Temp Machining

Research headed by a Cornell University professor, on machining high-strength materials at temperatures up to 1200 F, indicates gains in machinability and tool life. The following results have been reported:

Tests were run on four representative materials, including a low alloy martensitic steel, a hot-work die steel, and two precipitation-hardening stainless steels. All were heat treated to the 350-600 Bhn range.

In face-milling tests of the hot-work die steel at 1000 F, tool life was increased 100 times compared to that obtained at room temperature. One of the precipitation-hardening stainless steels, subjected to the same tests, showed an increase in tool life of 20 times.

Tool life increase in turning tests at temperatures up to 900 F ran as high as 20 times for the low alloy martensitic steel and up to five times for one of the precipitation-hardening stainless steels.

Tests also showed that when welding occurs between chip and tool, the limiting temperature was reached at around 1100 F.

Among the heating methods tested, high-frequency induction heating proved satisfactory for maintaining heat, but was limited to the extent of heat concentration that can be obtained. Radio-frequency resistance heating showed a good potential, since localization and control of heat were achieved without some of the disadvantages of induction, flame and arc heating.

The tests—performed at Cincinnati Milling Machine Co., with U. S. Air Force sponsorship, under the direction of William Pentland, assistant professor of materials processing, Cornell's Sibley school of Mechanical Engineering—were described by Mr. Pentland at a meeting of the Western Section of ASTME, held last month in Los Angeles.

The complete 187-page report on "High Temperature Machining Methods (Phase 1: Evaluation of Elevated Temperature Machining Methods)" is available from OTS, U. S. Dept. of Commerce, Washing-


NOW
brand new design
K-D Saftee Lites
• Clearance • Marker • Identification
with K-D's Economical Quality Built-In

KD X522 Shockmount
KD 522 Non-Shockmount
2" x 3⅝" x 1⅜"

VISIBILITY 120° light spread . . . high candle power output. Exceeds SAE specifications . . . marked and certified as meeting ICC requirements.

DESIGN Completely new . . . rectangular lites, square and oblong . . . consistent with latest truck and trailer design. Die-cast base . . . provides for inside and outside wiring. Color-fast, non-craze plastic lens. Economical standard type bulbs designed for long life . . . filament operates at low temperature for mechanical strength.

RUSTLESS No gaskets to deteriorate. Engineered to disperse condensation . . . moisture gets out fast!

LABOR SAVING Easily installed . . . only two mounting holes . . . flush mounting . . . no sockets to protrude. Lens easily pries off and snaps on . . . no screws . . . lock compression latch.

Available shock mount lites . . . with cushioned bulbs to prolong life: KD X522 and KD X526.

THE COMPLETE LINE SAFTEE PRODUCTS

K-D LAMP COMPANY
1910 ELM ST., CINCINNATI 10, OHIO

*The Complete Line* Turn Signals, Truck Mirrors, Stop and Rear Lites, Reflectors, Clearance Marker Lites are representative of K-D's complete single-source-service of Automotive Saftee Products.

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ton 25, D. C., at $3. Designation is PB-161680.

## Hobart Schedules Courses on Welding

The Hobart Brothers Technical School has scheduled five separate courses on various phases of welding—each of five days' duration—for key personnel in industry. Overall subjects and dates follow:

Induction Heating for the Welding Industry (heat treating and stress relieving) — January 9-13, 1961.

Welding Fundamentals for Supervisors and Engineers—January 16-20, and May 8-12.

Arc Welding Inspection and Quality Control—January 23-27, and May 15-19.

Automatic Welding—March 20-24, and May 22-26.

Gas-Shielded Arc Welding Processes—April 24-28.

Registration fee for each course is $50. Reservations can be made through the School Director, Hobart Brothers Technical School, Troy, Ohio. More details may be obtained by writing for the Short Course Bulletin, Winter-Spring, 1961.

## Japanese Truck Builder Gets $9.3 Million Credit

The Export - Import Bank of Washington, an agency of the U. S. Government, announced last month the authorization of a $9.3 million credit to the Isuzu Motor Co., Ltd. of Japan for the purchase of U. S. machinery and equipment. The U. S. equipment is to be used in a new automotive production plant located at Chogo, near Yokohama.

Part of an overall expansion program of Isuzu totaling $68 million, the $9.3 million Eximbank credit will reportedly generate more than 100 orders to 20 U. S. suppliers for tools and machinery.

## Around the Industry

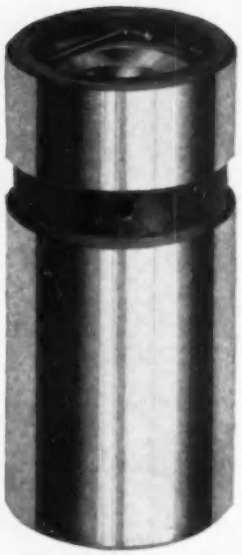
**Warner & Swasey Co.**—earned a net income of $2,191,285 on a product income of $44,429,829 in the first nine months of 1960. The 1959 figures were $3,370,867 and $42,039,409, respectively. Four regular quarterly dividends of 40¢ each have been declared during 1960. Walter K. Bailey, president, in his report stated, "The order backlog, which reached its lowest point in August, has increased to over $14 million, and this assures considerably better shipments and profit in the 4th Quarter than in the 3rd Quarter."

**E. W. Bliss Co.**—has re-located its press sales headquarters from the general office in Canton, O., to the company's plant at Hastings, Mich. Other news from Bliss reveals that Marquis P. Orr has been appointed general sales manager of the Mackintosh-Hemphill Div.

**Optical Gaging Products, Inc.**—this wholly-owned subsidiary of Ex-Cell-O Corp. has acquired Automated Reproductions Co. of Detroit, developers of equipment for plastic etching on Plexiglass, vinyls, butyrates, and styrene. Production of dials, scales, diagrams and circuit layouts on the various types of plastics is being transferred to the Optical Gaging plant at Rochester, N. Y.

**Cincinnati Milling Machine Co.**—George E. Parker has been ap-

(*Turn to page 86, please*)

for all engine applications

**JOHNSON *tappets***

Keeping ahead with the latest tappet developments is a full-time job at JOHNSON PRODUCTS. All of our design engineering and manufacturing improvements go toward giving your engine the right kind of *tappet performance*.

We think the results speak for themselves: Johnson Tappets are *high in quality, competitive in price*. As tappet specialists, we welcome the opportunity to show you how well the job can be done.

Johnson TAPPETS

*"tappets are our business"*

**JOHNSON JP PRODUCTS inc.**

MUSKEGON, MICHIGAN

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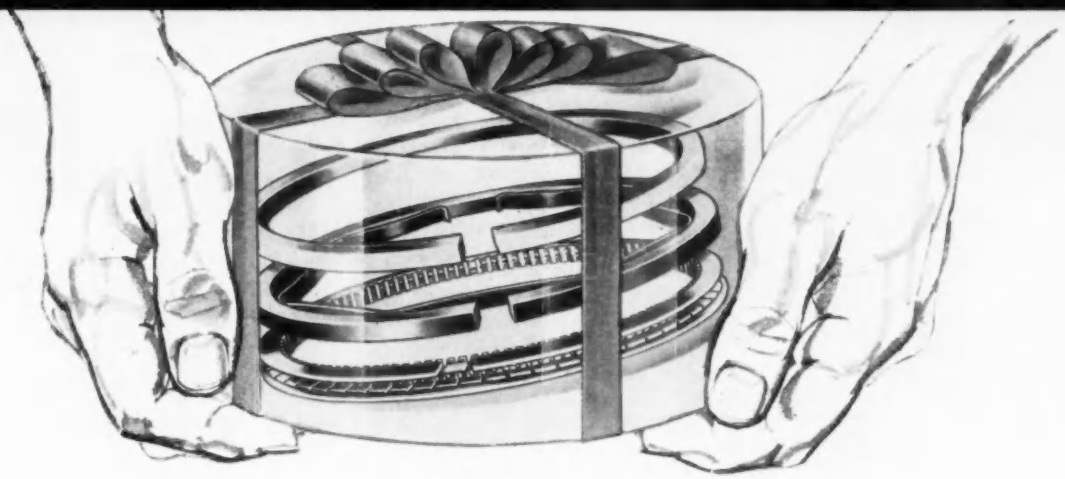

## give the *gentleman* what he wants...

the complete package

When the *gentleman,* the great automotive industry, calls for piston rings, Thompson Products RAMCO DIVISION gives him ***the complete package.*** That package includes piston ring engineering facilities backed by the world-renowned Thompson Ramo Wooldridge organization; it includes precision, capacity and delivery insurance that only the world's most modern ring plant could deliver. Such a plant is the new Ramco Division Plant in Manchester, Missouri. We'd like to have you see this plant in person, or if you can't, through our new booklet, "Most Modern Ring Plant." May we send you a copy?

***Piston Rings by* THOMPSON PRODUCTS RAMCO DIVISION**

***Thompson Ramo Wooldridge Inc.*** • P. O. Box 513
Dept. H, St. Louis 66, Mo.

AUTOMOTIVE GROUP

THOMPSON PRODUCTS LIGHT METALS DIVISION | THOMPSON PRODUCTS MICHIGAN DIVISION | THOMPSON PRODUCTS VALVE DIVISION | THOMPSON PRODUCTS RAMCO DIVISION | THOMPSON PRODUCTS MOTOR EQUIPMENT MANUFACTURING DIVISION

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## MACHINERY NEWS

(*Continued from page* 84)

pointed assistant sales manager of the Cincinnati Milling Products Div.

**Buhr Machine Tool Co.**—Richard Miller has been named manufacturing manager.

**Gisholt Machine Co.** — Roy W. Boyd, former chief tool designer at the Melrose Park Works of International Harvester Co. and more recently a member of the sales organization of Monarch Machine Tool Co. at Chicago, has been appointed direct sales representative in Gisholt's Chicago territory.

**National Automatic Tool Co.**—Richard E. Oliver has been appointed purchasing agent. He succeeds Paul G. Nolte who has retired after 45 years of service at Natco.

**Thomson-National Press Co.**—Basil M. Parsons, vice-president and sales manager, went into semi-retirement this month at the age of 65.

**Ex-Cell-O Corp.**—was recently given first place award for the best 1959 annual report in the machine tool industry, in the 1960 competition sponsored by the *Financial World* magazine. ■

## Conferences Urged On Health Hazards

Consultation between production executives and safety and hygiene personnel to reduce health hazards was urged by Vincent J. Castrop, director, Industrial Hygiene Dept., General Motors Corp.

Addressing the National Safety Congress in Chicago, Mr. Castrop said the plant physician or safety director, or both, should be on the team with technical and management personnel early in the development of a new production method, preferably while it is in the laboratory or pilot stages.

To reach a sound decision, he said, those in charge of employe health will need to know (1) Composition and concentration of the materials involved in the process; (2) methods of use or application; (3) operating temperatures; (4) frequency of performance; (5) location in the plant; (6) location of the employe with relation to the point of release of dust, gases, mists or vapors; (7) the number of employes involved, and (8) the number of similar units to be provided and their location.

Another speaker, G. V. Kieffer, director of General Motors' fleet section, said the car we drive 10 years from now probably won't be radically different from today's automobiles. "There will be changes," he said, "and many of them. He added he did not foresee such revolutionary developments in the next few years as atomic-powered cars or disappearance of the conventional-sized passenger car.

Mr. Kieffer said the foolproof or crash-proof car is not imminent and the hope for such vehicles will be wishful thinking that only diverts attention from the urgent, primary need for better trained and better controlled drivers.


MIRO-FLEX QUALITY LAMPS AND REFLECTORS

NOW AVAILABLE FOR O. E. M.

For the best in original equipment — specify Miro-Flex truck, trailer, and tractor lamps and reflectors! Immediate delivery for O. E. M. — on all types of clearance lights, turn-signal and marker lamp assemblies, stop lights, and reflectors. Miro-Flex leads the way . . . for finest heavy-duty quality lamps and reflectors, at lowest cost! Send for free catalog of Miro-Flex lamps, reflectors, and safety equipment, today!

FULL LINE OF SAFETY EQUIPMENT

Turn, Stop, and Tail Lights

Standard Mirror Assemblies

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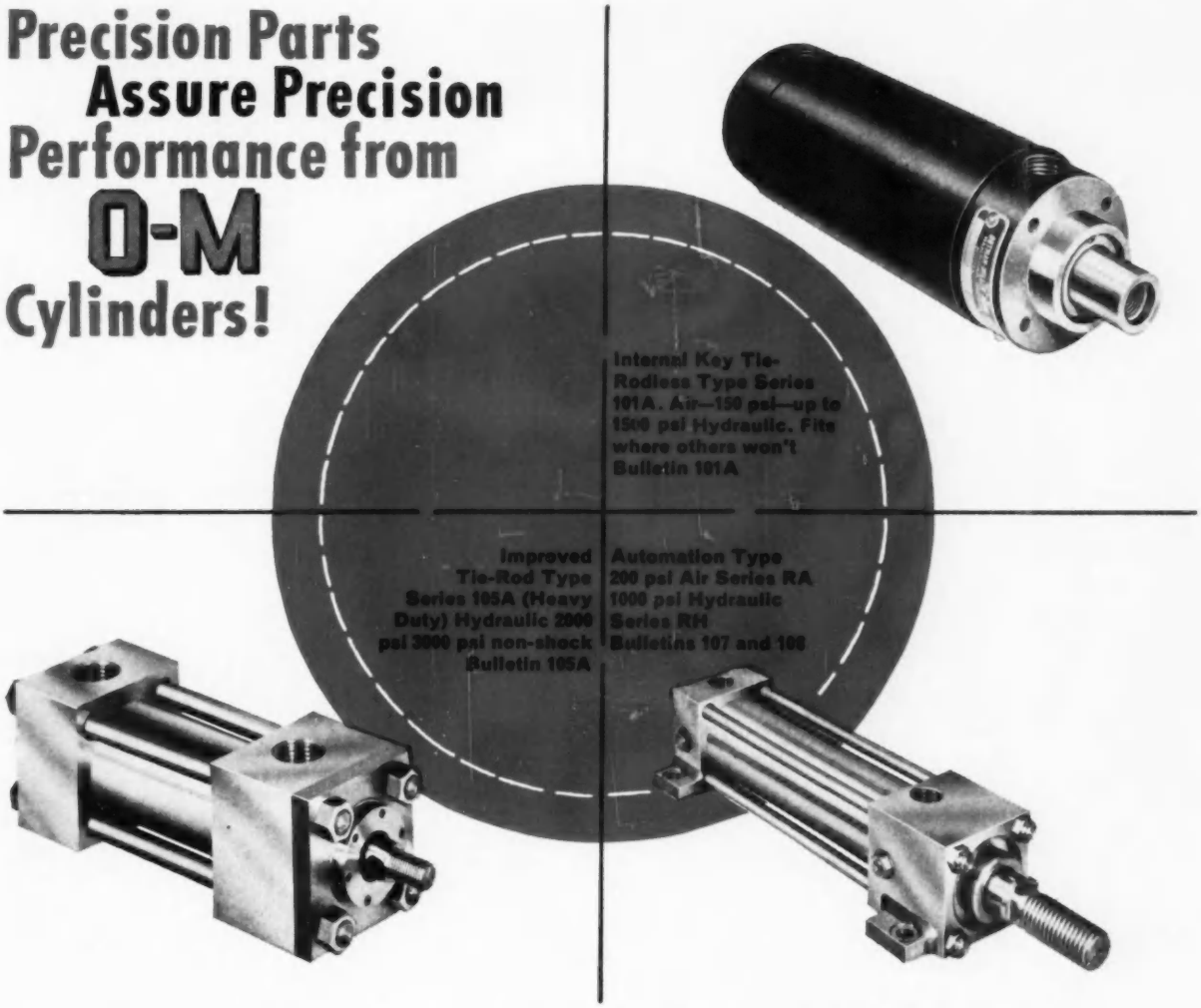
The Original Miro-Flare

THE MIRO-FLEX CO., INC. 1824 E. SECOND WICHITA 14, KANSAS

M-160

Circle 151 on Inquiry Card for more data

# Precision Parts Assure Precision Performance from O-M Cylinders!




## *ALL O-M CYLINDERS MEET JIC STANDARDS*

With all matching parts and mounts machined to close tolerances, O-M Air and Hydraulic Cylinders eliminate misalignment friction, unnecessary wear on rod, bearings and packings, also reduce maintenance, when operated singly or in sequence under automatic cycling. The length and direction of piston rod travel is accurately controlled whether the job calls for moving a machine member, holding a tool, positioning, clamping, releasing a work piece, activating an indexing table or other applications. In addition, precise cushioning against piston shock on thrust and return strokes makes for smoother, dependable operation.

O-M Cylinders are available in a complete range of sizes (1½" to 8" bores) with standard or heavy-duty rods. Complete line of interchangeable parts and mounts. Immediate delivery on most sizes.

If you are designing air or hydraulic cylinders into original equipment for precision control of linear motion, coupon below will bring our latest bulletins showing construction and dimensional details, engineering drawings, capacity chart and mounting data. For your copies, **MAIL COUPON TODAY.**

**ORTMAN-MILLER MACHINE COMPANY**
**17 143rd Street, Hammond, Indiana**

☐ Have representative call

Send Bulletins
☐ 101A
☐ 105A
☐ 107
☐ 108

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ADDRESS_____
CITY_____ ZONE_____ STATE_____



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AUTOMATIC'S "Springineering" creates the one correct quality-controlled spring for your specified requirement.

Look at the field of industries covered by AUTOMATIC . . . and you will find virtually every product that uses springs.

We guarantee fulfillment of your production and delivery schedules.

for quality springs "Automatically" think of

**AUTOMATIC SPRING COILING CO.**

**4045 West Thorndale Avenue • Chicago 46, Illinois**

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# More Government Contract Awards

LATEST contracts awarded by various Government agencies, and covering primarily automotive and aviation products, are listed in the following. Typical of the items contained in these monthly listings are: passenger cars, motor trucks, aircraft, military tanks, engines, transmissions, other components, spare parts, plant equipment, etc. This list is for the period Oct. 27 to Nov. 21, inclusive.

**AUTOMATIC TRANSPORTATION CO., DIV. YALE & TOWNE MFG. CO., Chicago, Ill.**
Truck, fork lift, 29 ea—$228,844

**CHRYSLER MOTORS CORP., Washington, D. C.**
Trucks, buses, 3 ea—$12,574

**CHRYSLER MOTORS CORP., Detroit, Mich.**
Truck, sedan delivery, 37 ea—$74,223

**COSA CORP., New York, New York**
Jig boring and grinding machine, 2 ea—$42,443

**FISK TIRES DIV., UNITED STATES RUBBER CO., Detroit, Mich.**
Tires, 12,925 ea—$181,253

**FORD DIV. OF FORD MOTOR CO., Washington, D. C.**
Trucks, buses, 3 ea—$10,854

**GENERAL MOTORS CORP., CHEV. MOTORS DIV., Detroit, Mich.**
Sedans, 14 ea—$26,966

**GENERAL MOTORS CORP., CHEV. MOTOR DIV., Detroit, Mich.**
Trucks, buses, 10 ea—$41,022

**GENERAL MOTORS CORP., CHEV. MOTOR DIV., Detroit, Mich.**
Trucks, various, 87 ea—$135,726

**GENERAL TIRE & RUBBER CO., Akron, Ohio**
Tires, pneumatic aircraft, 5,600 ea—$522,200

**FRANK G. HOUGH CO., Libertyville, Ill.**
Tractor, aircraft, 60 ea—$479,606

**INTERNATIONAL HARVESTER CO., Washington, D. C.**
Trucks, buses, 2 ea—$16,160

**INTERNATIONAL HARVESTER CO., Washington, D. C.**
Truck, cargo, pickup, 187 ea—$445,541

**R. K. LEBLOND MACHINE TOOL CO., Cincinnati, Ohio**
Lathe, engine, 3 ea—$34,336

**W. E. SHIPLEY MACHINERY CO., Philadelphia, Pa.**
Lathe engines, 2 ea—$31,648

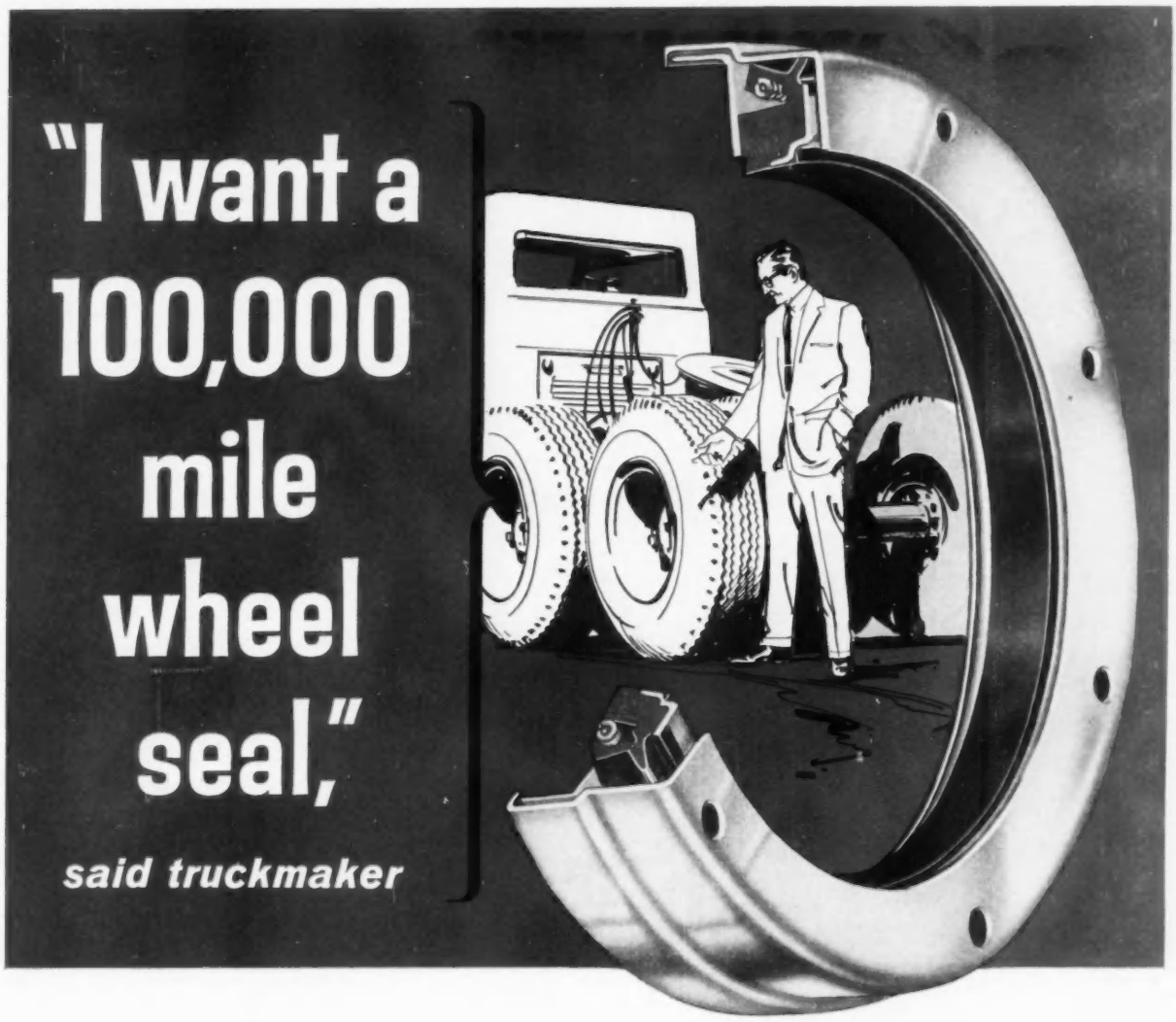
**STUDEBAKER-PACKARD CORP., South Bend, Ind.**
Truck, cargo, pickup, 41 ea—$56,311

**STUDEBAKER-PACKARD CORP., South Bend, Ind.**
Trucks, buses, 6 ea—$11,421

**UNITED STATES RUBBER CO., Detroit, Mich.**
Tires, pneumatic aircraft, 2,706 ea—$79,908

**WAUKESHA MOTOR CO., Waukesha, Wisc.**
150-kilowatt engine generator sets—$1,564,643

**WILLYS MOTORS, INC., Washington, D. C.**
Station wagons, 8 ea—$17,313




# "Here's Scotseal," said C/R

Premature wheel oil seal failure—often within the warranty period—was plaguing a major truck manufacturer. This was costly. One seal replacement took three hours labor and three hours tractor downtime—important money to the maker, dealer and buyer. Then C/R found an answer to the problem. A unique, new design called the C/R Scotseal* was submitted and tested . . . then tested again and again. First result: C/R Scotseals repeatedly ran 100,000 miles and more with no sign of failure. Second result: they're approved now for every truck tractor this manufacturer makes.

Just why does this seal go 100,000 miles? C/R developed a special, ideal sealing surface and made it integral with the seal. The lip runs on this surface, *not on the shaft or bore*. In operation, centrifugal force creates positive, constant contact for leak-free performance. Also, the seal lip is completely encased and pre-lubricated, protecting it against damage in handling and assembly. This remarkable seal merits your consideration wherever high production runs are involved; where oil retention is difficult; and where equipment downtime and replacement costs are critical. The savings it can afford you and your customers may far outweigh the additional cost of this top-quality seal.

*Write for your copy of C/R Scotseal* Bulletin SS-100.*

**CHICAGO RAWHIDE MANUFACTURING COMPANY**

OIL SEAL DIVISION: 1205 ELSTON AVENUE • CHICAGO 22, ILLINOIS
Offices in 55 principal cities. See your telephone book.
**In Canada:** Chicago Rawhide Mfg. Co. of Canada, Ltd., Brantford, Ontario
**Export Sales:** Geon International Corp., Great Neck, New York
C/R Products: C/R Shaft & End Face Seals • Sirvene (synthetic rubber) molded pliable parts
Sirvis-Conpor mechanical leather cups, packings, boots • C/R Non-metallic Gears.

*Reg. U. S. Pat. Off.



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# "PROGRAMMED PRODUCTION"

...high productivity

AT **FAIRFIELD**

benefits users of gears

Simple arithmetic explains why, TODAY, many of America's leading machine makers no longer undertake to solve the problems involved in production of gears, differentials, and specially designed gear parts. For them, FAIRFIELD IS THE ANSWER!

Every facility is available at Fairfield—latest, cost-cutting, ultra-modern metalworking and heat treating equipment, kept busy by volume production, *plus* expert engineering counsel. This makes for ECONOMY and EFFICIENCY that can BENEFIT YOU.

Check with Fairfield NOW on your gear production schedules. As one of the nation's largest independent producers, Fairfield can usually give you quickest service available and handle any production requirement. *Become a Fairfield customer; it pays!* CALL OR WRITE.

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For FINE GEARS

*Gears and Differentials Made to Order for:*

TRACTORS • HEAVY DUTY TRUCKS • AGRICULTURAL MACHINERY • POWER SHOVELS AND CRANES
MINING MACHINES • ROAD GRADERS • BUSES • STREET SWEEPERS • INDUSTRIAL LIFT TRUCKS

Circle 155 on Inquiry Card for more data


*New*

# PRODUCTION AND PLANT EQUIPMENT

(*Continued from page* 60)

## Machine Performs 3 Operations

A NEW special 56-station, 114-ft long, building block transfer machine that drills, taps, spotfaces, mills, bores and assembles a bushing and a stamped rectangular cup in aluminum automotive torque converter case covers is announced by Snyder.

The machine utilizes advanced concepts of in-process gaging including hole probing and precision air gaging. The random processing of two different parts that have many identical holes and surfaces to be machined, but are of different OD and configuration, is accomplished by bolting an adapter on the smaller part. This adapter provides the smaller part with a similar configuration and clamping surfaces to the larger part, thus enabling it to be transferred through the machine, without changeover of any clamping details or transfer mechanism units.

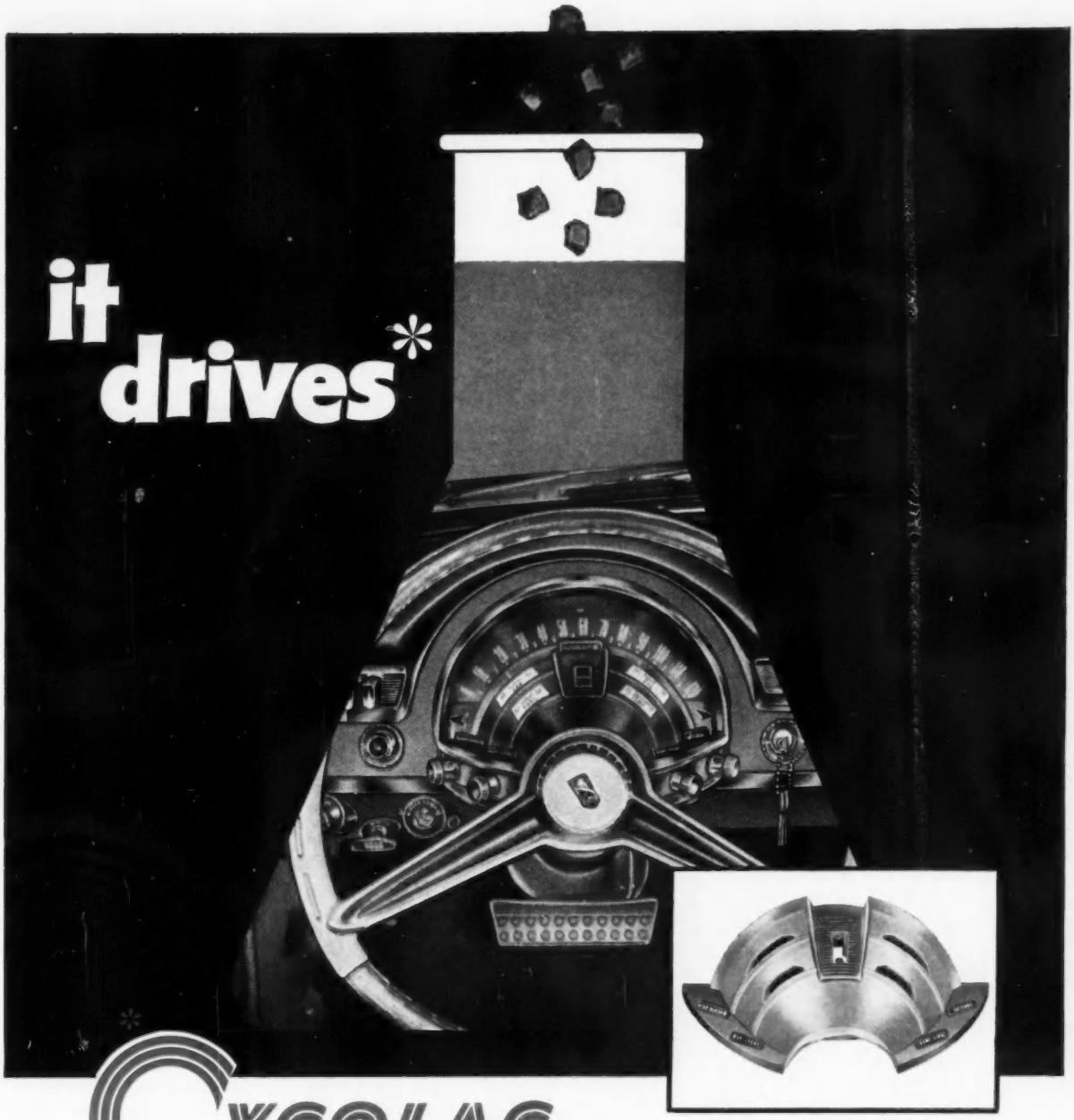
The adapter is provided with lug surfaces that automatically cause certain machining stations to be inactivated where necesssary.

Both large and small covers are processed at a rate of 150 pieces per hour. This unit is made up from 19 separate and distinct machining segments. In all 46 holes are machined in the processing sequence. *The Snyder Corp.*

**Circle 62 on Inquiry Card for more data**

## Press Load Measuring

TWO electronic precision instruments, now available, were developed to safeguard against damage to presses and dies during production runs. The Niagara Load Monitor (model 112) is designed for continuous measurement of all press loads on a given press. It responds instantly and accurately regardless of press speed, the manufacturer reports. Consisting of a control unit located conveniently near the press plus two or four pickups mounted permanently on press frame or tie rods, the Load Monitor registers loads from 0 to 140 pct of press capacity. To prevent overload repeats, it is equipped with a special tripping circuit which disengages the clutch when the pre-selected per-




# CYCOLAC®

**THE BORG-WARNER PLASTIC THAT'S TOUGH, HARD, AND RIGID**

Every year, the auto industry finds new applications for CYCOLAC—to the tune of important savings and an improved appearance for many products. The 1960 Chrysler instrument panel you see above is a typical example.

This unique panel, molded of Borg-Warner CYCOLAC, cuts production costs because it replaces expensive die-cast metal with economical molded plastic. It also replaces chrome plating with vacuum plating . . . another cost-economy. Product-appearance is improved because the toughness, hardness and rigidity of CYCOLAC enable it to keep its "like new" look for many years.

CYCOLAC *Better in more ways than any other plastic*

**GET THE FACTS—WRITE TODAY!**

**MARBON CHEMICAL** DIVISION **BORG-WARNER**
WASHINGTON WEST VIRGINIA



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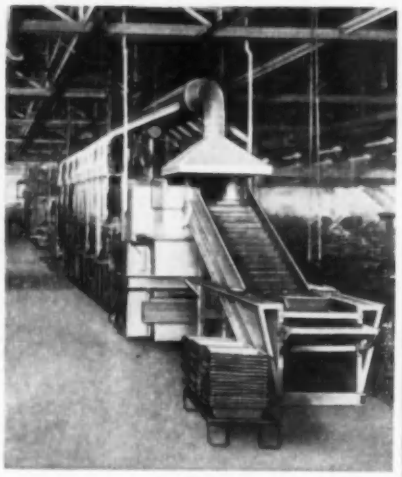
# HOLCROFT



## PRODUCTION HEAT TREATING EQUIPMENT

of any of these types

* BATCH
* CONVEYOR
* ROTARY
* CAR TYPE
* SHAKER HEARTH
* ROLLER TYPE
* WALKING BEAM
* PUSHER TYPE

HOLCROFT & COMPANY

6545 Epworth Blvd., Detroit 10, Mich.
Phone TY 4-5700

44 YEARS OF ENGINEERING LEADERSHIP

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centage of press capacity is reached. It can also be arranged to actuate a warning signal. All adjustment controls are key-locked to prevent tampering by unauthorized personnel. Because of their small size, (4 by 2 by 1 in.) the pickups can be mounted well out of the way of die space and feeds.

The Tonmeter (model 119) is a portable instrument designed to show the maximum load on a press during operating cycle as well as die setting. *Niagara Machine and Tool Works.*

**Circle 63 on Inquiry Card for more data**

## Mist Cooling Equipment

MIST coolant equipment of the latest design is now making possible important improvements in machining techniques. New self-contained units incorporate air and coolant filtration, and are operated from the plant air supply. To avoid the problems of erratic flow of coolant, pressurized reservoirs supply coolant under pressure to the jet tip where, mixed with air, it is sprayed on the tool as a finely divided mist free of droplets, drip and sputter.

One new compact unit contains air filter, trap, regulator and gauge, solenoid valve and conduit box, pressurized coolant reservoir and coolant filter all in a single integrated package.

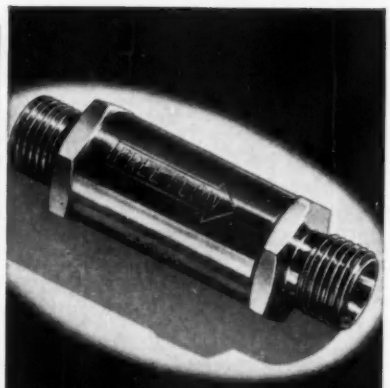
Additional flexibility is provided by interchangeability of a wide variety of standardized components, including three types of jet, five varieties of dual tee blocks, reservoirs in three sizes for any of three standard solenoid ratings, and low-cost easy-to-install replacement jet tips. Magnetic jet holders are also available to facilitate "set-up." All parts are protected against corrosion.

Reservoirs available have 18-oz., 1-gallon, and 5-gallon capacities, each of which is available with solenoid ratings of 120, 220, or 440 volts at 50 to 60 cycles alternating current. Three, five, six, eight and ten-way dual tee blocks are available for branching lines to diverse application points fed from the same reservoir. Branching from existing lines, a single unit can supply 10 or more jets.

With the new equipment, atomizing takes place in the jet tip only, giving maximum control of the spray pattern at the point of application. A precision needle valve in the jet tip permits adjustment of the discharge ranging from an extremely fine mist to a drenching, heavy spray. *O. S. Tyson and Co., Inc.*

**Circle 64 on Inquiry Card for more data**

(*Turn to page* 108, *please*)

# KOHLER PRECISION CONTROLS

## Relied upon for *quality, engineering, workmanship*

Kohler Precision Controls include a wide range of valves, fittings and parts in various types and sizes for industrial equipment, automotive, aircraft and missile applications. Complete facilities in one plant, with unified supervision, contribute to maximum control in manufacture, prompt deliveries. Ultra-sonic cleaning facilities. Air filtered to 10 microns in area where hydraulic system components are assembled, tested and packaged.

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*Send for catalog with complete data on:*

CHECK VALVES
Cone Type
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PRESSURE RELIEF VALVES
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NEEDLE VALVES
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KOHLER OF KOHLER

Enameled Iron and Vitreous China Plumbing Fixtures • Brass Fittings • Electric Plants • Air-cooled Engines • Precision Controls

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# How SHAKEPROOF Protects Your Product's Reputation

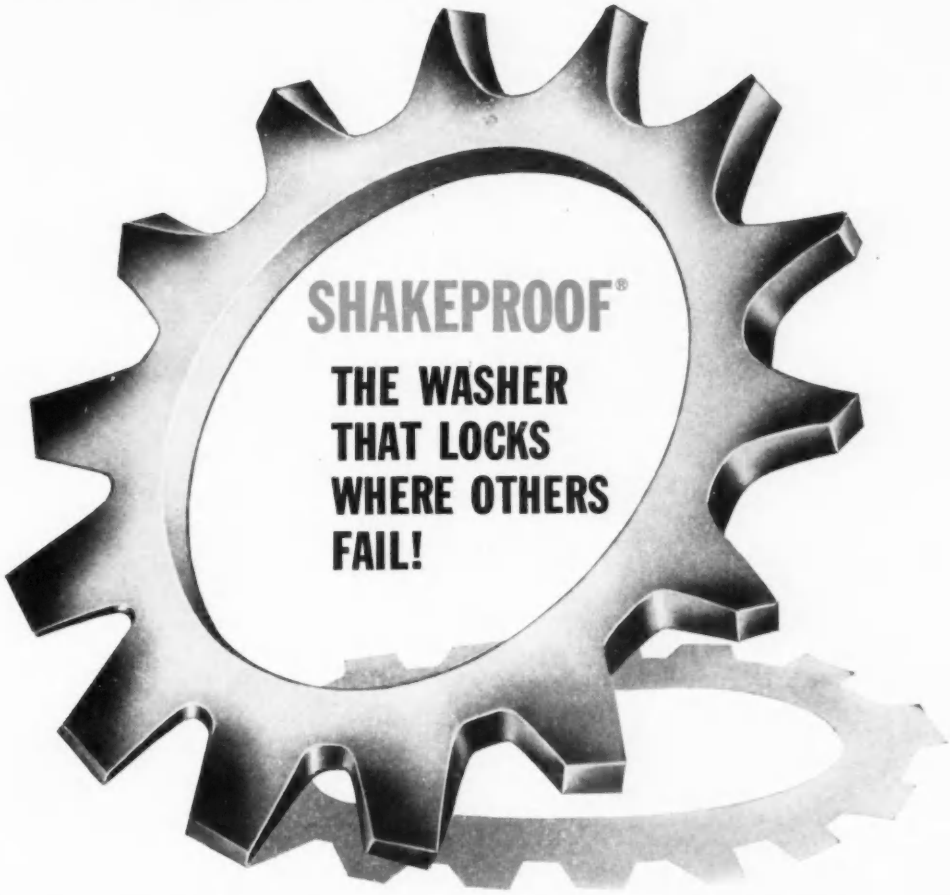
**Here is the answer to one of industry's toughest problems . . . how to reduce costly inspection rejects and avoid customer complaints due to fastening failure.**

Shakeproof engineers have gathered formidable evidence that only one washer locks . . . where others fail! Their findings, just published in the booklet offered at the right, prove that "weight and thickness" don't lock a fastener, and that "spring action" alone isn't locking action.

They have conducted tests with various types of washers commonly used for protection against failure caused by handling and operational vibration. Results show that only Shakeproof Lock Washers retained 100% relative locking efficiency.

Be sure to protect your product's performance and reputation with the one top-quality, top-performance lock washer . . . Specify SHAKEPROOF . . . the *original* toothed lock washer!

**Send for this Free Booklet Today**—it is filled with factual test data and actual case histories which show how you can be sure of quality at every step in the assembly of your product.




STANDARD SHAKEPROOF LOCK WASHERS INCLUDE:

External Type | Internal Type | Heavy Duty Internal Type | Countersunk Type | External-Internal Type | Pyramidal Type | Dome Type Toothed or Plain Periphery | Dished Type Toothed or Plain Periphery

**SHAKEPROOF** *"Fastening Headquarters"*®

**DIVISION OF ILLINOIS TOOL WORKS** St. Charles Road, Elgin, Illinois

In Canada: SHAKEPROOF/FASTEX Division of Canada Illinois Tools Limited, 67 Scarsdale Road, Don Mills, Ontario

LOOK TO SHAKEPROOF—THE LEADER IN FASTENING



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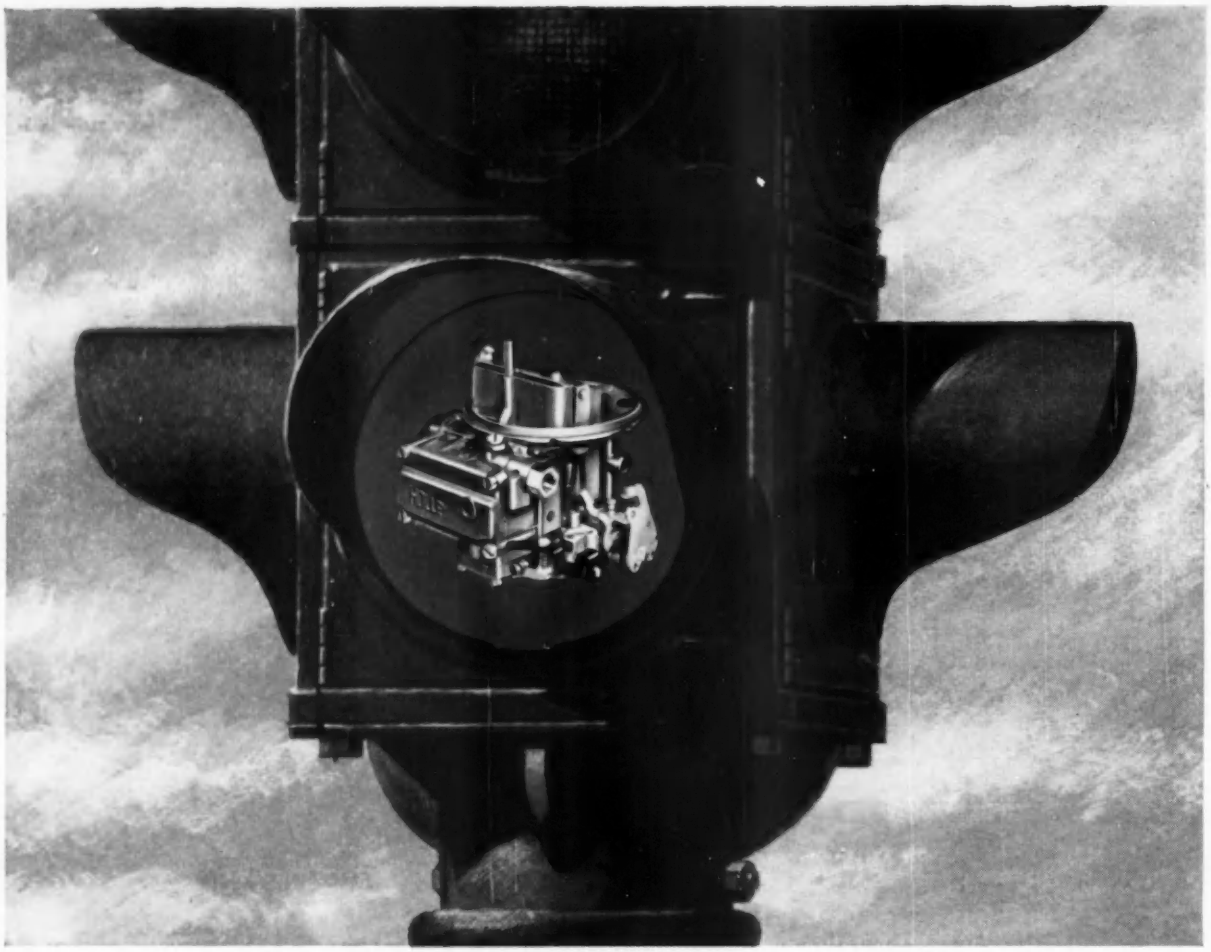

# What happens when the light turns GREEN?

A foot instinctively touches the accelerator. The idling engine springs to life, and the car moves smoothly ahead. It seems so simple, yet literally years were required to design a Holley Carburetor to deliver the exact fuel-air mixture required for instant response when the light turns green, and maximum performance and economy under all conditions.

The ability to design and manufacture intricate carburetors to the specifications of each engine and vehicle is the reason why so many of today's automobiles and trucks have Holley Carburetors as *original equipment.* They are the latest additions to a long, distinguished parade of vehicles for which Holley has supplied over 65,000,000 carburetors.

OVER 55 YEARS ORIGINAL EQUIPMENT MANUFACTURERS

*Holley Carburetors and Ignition Equipment maintain the Holley reputation for precision quality and dependable performance.*

HOLLEY Carburetor Co.

Researchers and Developers in Three of America's Most Important Industries

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11955 E. NINE MILE ROAD, WARREN, MICHIGAN

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AUTOMOTIVE DIVISION . AIRCRAFT DIVISION . ELECTRO-MECHANICAL DIVISION



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# Sounding off for the

# SPLENDID 61's

## all rolling swift and sure with National Oil Seals

Compact or standard size, each new or established make again demonstrates the superb engineering that holds Detroit above contest as the motor capital of the world.

Again this year, National Oil Seals are proud to be present on each make and model, contributing to the safe, smooth operation of the world's finest automobiles.

**NATIONAL SEAL**

Division, Federal-Mogul-Bower Bearings, Inc.
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Detroit 27, Michigan

6808

Plants in Van Wert, Ohio, Redwood City and Downey, California



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# MODERN TOOLS FOR A MODERN ARMY

**By Lt. Gen. J. H. Hinrichs**
**Chief of Ordnance**
**DEPARTMENT OF THE ARMY**

THE suggestion that I talk about "Modern Tools for a Modern Army" interested me immediately because Ordnance and the machine tool industry have a great deal at stake and a common interest in tools and tooling.

We live in a time of dynamic change. Thanks to the intrusion of advancing technology coincident with ominous happenings in the political arena, we must be prepared to fight several kinds of war ranging from "brush fires" and skirmishes to general, nuclear war. Furthermore, man has extended his capability to exist and maneuver on a global scale below the surface of the oceans, on its surface, on the land, and in the air above us.

The accelerated exploration of outer space has injected another unknown into the equation. We cannot lightly shrug off the possibility of conflict in other worlds—or in interstellar space.

The long shadow of the ballistic missile, capable of delivering atomic destruction across continents and oceans in minutes, hangs over a tense and sharply divided world.

## Different Concepts

The sum of these factors has compelled the adoption of radically different concepts in weaponry, in tactics and in strategy to insure the preservation of human liberty. Your armed forces have undergone a major revolution in organization, weapons systems and operating concepts within the last decade. The Army's role has not changed materially, but the means and the methods which it must employ have been profoundly affected.

The broad responsibilities have been rendered ever more complex by the swift progress of a rival technology. To meet and surpass that challenge calls for an array of weapons whose capabilities wring the last ounce out of the state of the art.

Until quite recently, for example, our nuclear weapons were committed solely to strategic employment. But as a relative nuclear parity developed, the threat of limited aggression increased. Consequently the Army undertook the development of tactical atomic weapons. The first of these was the huge 280 mm atomic cannon which, at the time of its advent, represented a substantial achievement. Now we have available, or are hard

(*Turn to page* 101, *please*)

Circle 162 on Inquiry Card for more data

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THE suggestion that I talk about "Modern Tools for a Modern Army" interested me immediately because Ordnance and the machine tool industry have a great deal at stake and a common interest in tools and tooling.

We live in a time of dynamic change. Thanks to the intrusion of advancing technology coincident with ominous happenings in the political arena, we must be prepared to fight several kinds of war ranging from "brush fires" and skirmishes to general, nuclear war. Furthermore, man has extended his capability to exist and maneuver on a global scale below the surface of the oceans, on its surface, on the land, and in the air above us.

The accelerated exploration of outer space has injected another unknown into the equation. We cannot lightly shrug off the possibility of conflict in other worlds—or in interstellar space.

The long shadow of the ballistic missile, capable of delivering atomic destruction across continents and oceans in minutes, hangs over a tense and sharply divided world.

## Different Concepts

The sum of these factors has compelled the adoption of radically different concepts in weaponry, in tactics and in strategy to insure the preservation of human liberty. Your armed forces have undergone a major revolution in organization, weapons systems and operating concepts within the last decade. The Army's role has not changed materially, but the means and the methods which it must employ have been profoundly affected.

The broad responsibilities have been rendered ever more complex by the swift progress of a rival technology. To meet and surpass that challenge calls for an array of weapons whose capabilities wring the last ounce out of the state of the art.

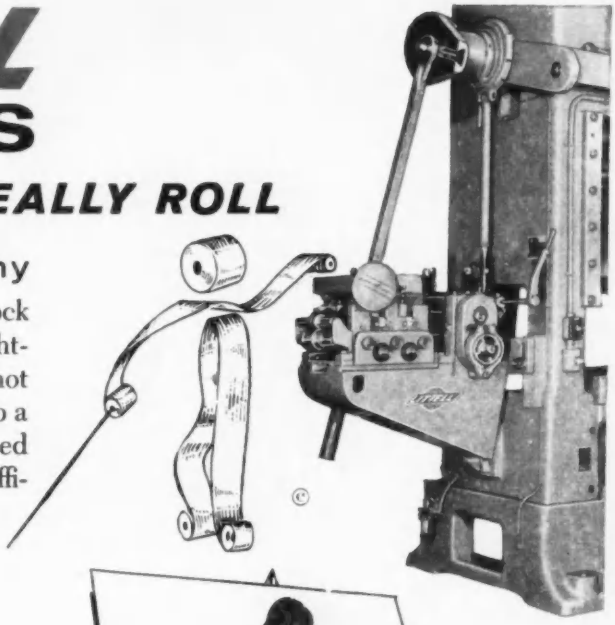
Until quite recently, for example, our nuclear weapons were committed solely to strategic employment. But as a relative nuclear parity developed, the threat of limited aggression increased. Consequently the Army undertook the development of tactical atomic weapons. The first of these was the huge 280 mm atomic cannon which, at the time of its advent, represented a substantial achievement. Now we have available, or are hard

(*Turn to page* 101, *please*)

Circle 162 on Inquiry Card for more data

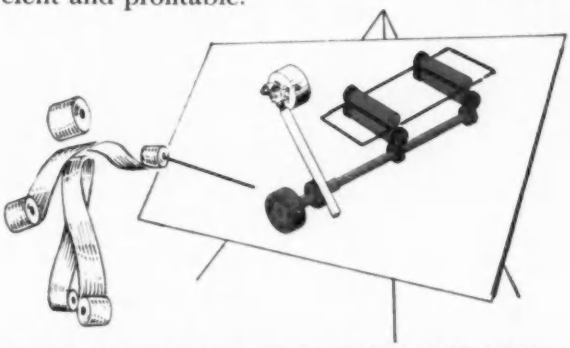
# LITTELL
# ROLL FEEDS

## *Make Press Production REALLY ROLL*

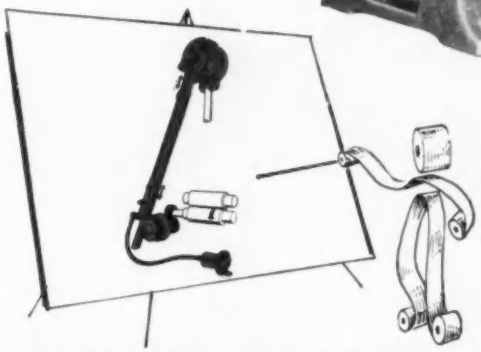


### Old Pro "Coily" Points Out Why

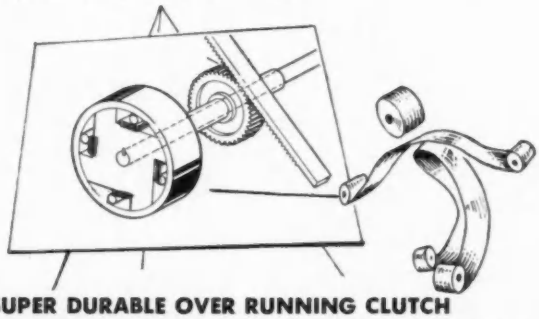
"Coily" has been around press rooms since coil stock came into the picture. He has seen Littell Straighteners and Feeds widely copied, in design, (but not in performance) time after time. He points here to a few of the new advanced design Littell Roll Feed features that make punch press operation more efficient and profitable.



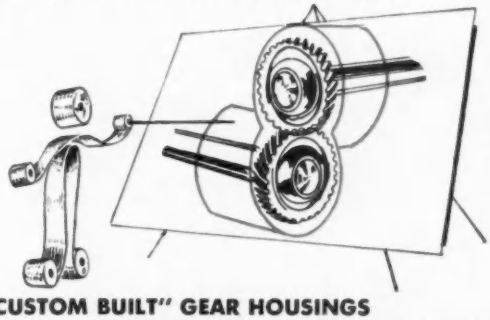
**GEARS AND ROLLS ARE PRECISION CONTROLLED**
Littell Rolls and Gears respond to control because they are light in weight. With less inertia to overcome, these strong, yet light rolls and gears start easy, go faster, and stop quickly. Big, new type disc brakes further assure the control that means accurate feeding in the higher speed ranges.



**LITTELL MICRO RUNNING ADJUSTMENT**
enables the punch press operator to adjust feed length plus or minus ⅛" while press and feed are running. A big help in setting up progressive dies requiring extremely accurate feed lengths.



**SUPER DURABLE OVER RUNNING CLUTCH**
Thanks to the exclusive Littell carbide cam construction that Coily points to, not a single clutch of this type has worn out in ten years of operation!



**"CUSTOM BUILT" GEAR HOUSINGS**
permanently hold Littell spiral gears in perfect alignment because each gear housing is specially machined for the individual spiral gears it seals in oil and protects. A Littell sustained accuracy feature.

**2 New Bulletins For Punch Press Operators**

**Bulletin A-11**
Describes Roll Feeds
For OBI Presses

**Bulletin A-15**
Describes Roll Feeds
For Straight Sided Presses

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**4111 N. Ravenswood Ave., Chicago 13**

**District offices: Detroit, Cleveland**

ROLL FEEDS • SHEETING LINES • STRAIGHTENING AND FEEDING MACHINES • REELS AND CRADLES FOR COIL STOCK



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# DURABLE IN THE EXTREME

## ...parts produced from Republic VACUUM-MELTED Metals

A leading manufacturer of ball bearings uses Republic Type 52100 Vacuum-Melted Alloy Steel in bearings produced for aircraft and missile applications. This steel provides excellent resistance to erosion, corrosion, abrasion, and impact. The alloy is supplied to the manufacturer in bars. It is then drawn into wire rods, annealed, drawn to size, sheared into slugs, forged, heat treated, rough ground, tempered, finish ground, and polished.

Produced by the consumable electrode process, Republic Vacuum-Melted Metals offer higher mechanical properties—ductility, tensile strength, and longer fatigue life—with nonmetallic inclusions reduced in number and size. Republic can deliver these metals in quantity on time, and in a wider range of sizes and conditions than ever before possible.

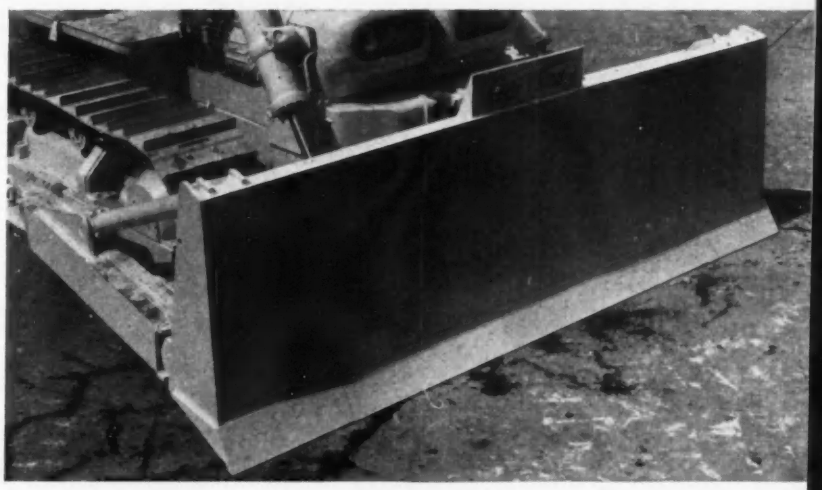
Our metallurgists will quickly help you select, apply, and process vacuum-melted metals: *super alloy steels, constructional alloy steels, high strength alloy steels, bearing steels, stainless steels, titanium,* and *special carbon steels.* For complete information, contact your nearest Republic sales office or return the coupon.

SUPER ALLOY STEELS • CONSTRUCTIONAL ALLOY STEELS • HIGH STRENGTH ALLOY STEELS • BEARING STEELS • STAINLESS STEELS • TITANIUM • SPECIAL CARBON STEELS

**REPUBLIC VACUUM-MELTED METALS** are produced in 18- to 32-inch diameter ingots weighing from 4,000 to 20,000 pounds. These can be processed into billets, sheets, bars, strip, and wire to meet your precise requirements.

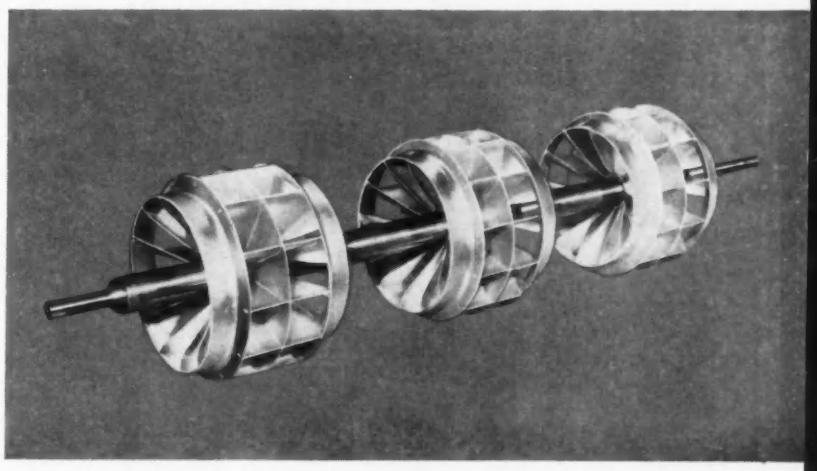
Strong, Modern, Dependable

Steel



**EXTREME TOUGHNESS:** Grader and bulldozer blades are produced from Republic Hot Rolled Special Sections by Bucyrus Blades, Inc., Bucyrus, Ohio. Special analysis steel—proved on the job—gives uniformly high impact- and wear resistance. Our technical people will be happy to show you how Republic's wide range of special section sizes and contours can be adapted to your particular product requirements.

**CLOSE-TOLERANCE CONCENTRICITY:** Buffalo Forge Company uses Republic ELECTRUNITE® Mechanical Tubing in the production of rotor shafts up to 94″ long. Turning at 1,110 rpm, these shafts require exact balance to maintain high operating efficiency. Close-tolerance concentricity of ELECTRUNITE meets requirements without costly machining. ELECTRUNITE Mechanical Tubing is available in carbon and stainless steel. Mail coupon for details.



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☐ Republic Vacuum-Melted Metals
☐ ELECTRUNITE Mechanical Tubing
☐ Have representative call to discuss Special Section requirements

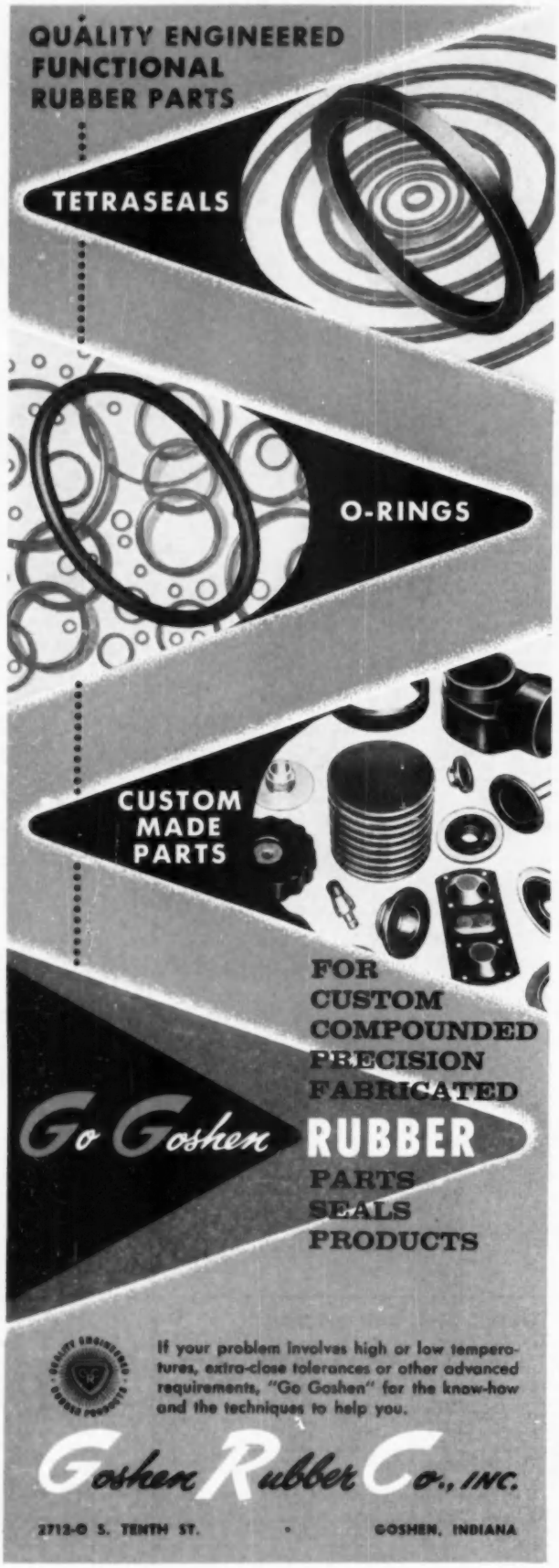
Name_____ Title_____

Company_____

Address_____

City_____ Zone____ State_____

**Circle 164 on Inquiry Card for more data**



**The new Congress and the new Administration will clamp tight restrictions on contacts between businessmen and officials of U. S. regulatory agencies. Legislation expected to get early Congressional attention will set up new rules of conduct for any behind-the-scenes contacts. The legislation will make contacts between agencies and companies they regulate a matter of public record. Bluntly, the proposed law will forbid any ex parte communication between agency personnel on the decision-making level and any outsiders.**

The fight for top spot in the Republican Party after its hairbreadth loss of the White House will be something to watch. It boils down to a battle between three men, defeated Presidential candidate Richard M. Nixon, Sen. Barry M. Goldwater, of Arizona, and Gov. Nelson A. Rockefeller, of New York. Goldwater is the spokesman for conservatives and Rockefeller is the leading GOP liberal. While Rockefeller and Goldwater battle at the right and left, Nixon may walk down the middle and steal the whole Republican pie.

**Small business can look for more aid from the Kennedy Administration. The President-elect has already pledged that "in 1961 we are going to have to protect the right of the small businessman to compete." Protection will be particularly through expanded activity of the Small Business Administration. Already past the $1 billion mark in loans, SBA will get even greater lending power.**

President-elect Kennedy will probably deliver for labor. But will Congress? The answer is not clear, but it is more likely labor won't be in as good a bargaining position with Congress as it is with Kennedy. The new President will probably give what he promised—a higher minimum wage, removal of present restrictions on common-site picketing, a revamping of the National Labor Relations Board, and perhaps withdrawal of other provisions of the Taft-Hartley Act which unions consider anti-labor.

**Congressional military investigators are supporting accusations that the Army spent $1.5 billion in the last decade on faulty combat vehicles. The General Accounting Office accused the Army of spending the money between 1951 and 1960 on nine types of vehicles which allegedly were poorly designed and subject to regular breakdowns. Latest vehicle under fire is the M-48 tank. Probers say the medium tank has a "basic and uncorrectable deficiency" in design of its cupola, suspension system and range finder.**



Circle 165 on Inquiry Card for more data

## MODERN TOOLS

(*Continued from page* 96)

at work on, an entire family of tactical weapons which can deliver atomic firepower on the battlefield. They range in size from weapons that are employed by an infantry squad to the giant Redstone ballistic missile reaching far back of the combat area.

The tacticians envisage great depth and fluidity in any future battlefield where atomic firepower is brought to bear. We must logically anticipate the need to disperse troops and bases, and exploit the capability to strike quickly and disperse immediately. Our troops must react faster, cover more ground, protect larger areas, move and regroup more rapidly than ever before. Tactical success can be assured only by greater speed of movement over all types of terrain. Mobility, flexibility, increased range, communications—these are the sine qua non of atomic war.

### Shorter Lead Times

I am sure many in industry remember the lessons of past mobilizations—partial or total—and the problems inherent in the changeover process. However serious those problems were, we are faced by even more stringent requirements now. We can no longer afford the luxury of long lead time and a sequential development process that took as long as 10 years to carry a new weapon system from design to deployment. The flashing progress of science has sharply accelerated the rate of obsolescence in weaponry and has cut the anticipated, useful lifetime of a new system to approximately five years.

It has become mandatory to telescope weapons programs and to proceed concurrently with design and development, prototype fabrication, testing, production and even troop training. We have already seen a few striking examples of what can be accomplished in this fashion.

Ordnance developed the Jupiter intermediate range ballistic missile system at a time when there was no industrial experience in this country. We phased in a prime contractor early in the development cycle, turned over to him a complex of subcontractors already schooled by Ordnance technicians in components production, and carried the Jupiter system to the point of deployment availability in a scant three years.

Any program which requires more time than that begs the question whether the investment is worthwhile in terms of the life expectancy of the end product.

### Spread Costs

There are other ramifications to this problem in addition to the need to reduce lead time. Our dollars must be spread over many clamoring demands. We must be ready to fight today's war with today's weapons, while we are developing improved weapons for tomorrow's war. As a result, any contribution which industry makes towards the reduction of cost—thereby enabling us to spread our

(*Turn to page* 104, *please*)

# PAYLOAD POWER

## with Rockford Spring-Loaded Clutches

ROCKFORD SPRING-LOADED CLUTCH

Positive, full-motion driving power with cushioned starts and controllability . . . this is how Rockford Clutches deliver today's payloads. More and more fleetmen are now specifying Rockford Clutches for their new trucks and for replacement on their present equipment. These men know that extra mileage, minimum maintenance and maximum power mean higher fleet profits. For complete details on clutches for payload power, *write today*.

**ROCKFORD CLUTCHES**

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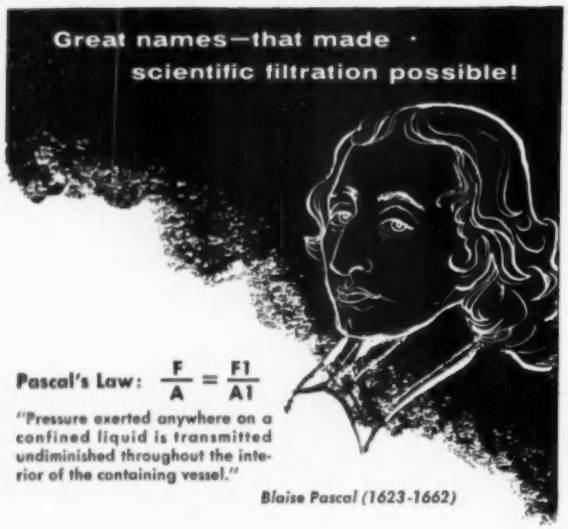


Although Pascal's Law is more than 300 years old, it is still one of the basic principles that must be taken into consideration in the design of new products for modern industry. And Air-Maze engineers, in their specialized field of developing better methods of filtering liquids and gases, are ever conscious of the importance of Pascal's discoveries.

For 35 years, whatever the filtration requirements—hydraulic presses or jet aircraft, air compressors or vacuum pumps—Air-Maze has been at work keeping equipment running better and longer by keeping it clean and free from damaging contaminants.

The products shown below are representative of the many designed and developed by Air-Maze engineers to meet special filtration requirements. If your product involves any gas or liquid that moves, Air-Maze can help you.

Only Air-Maze Dry Type air filters have the exclusive Dry-Maze washable, non-paper element. Lasts indefinitely.

Open circuit filters, either disc or pleated type, for installation in any available cavities. All-metal filtration media for high efficiency even at elevated temperatures. Available with or without housings.

OTHER AIR-MAZE PRODUCTS:
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A SUBSIDIARY OF ROCKWELL-STANDARD
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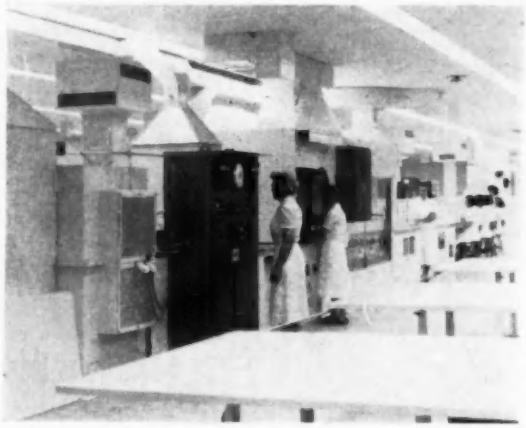
# Manufacturers' News

## Goodyear Plant Expansion

Goodyear Tire & Rubber Co. has announced plans for a $1.2 million expansion of its Akron, O., plants for production of chemigum rubber and synthetic latex. Sam DuPree, vice president-production, said enlarged storage and production buildings and new equipment would increase output by 15 per cent.

## Mahon's California Plant

R. C. Mahon Co. has opened manufacturing facilities at Torrance, Calif., to produce building products, structural steel fabrication and industrial equipment. The $3.5 million plant includes a 200,000 sq ft manufacturing building and an 11,000 sq ft administration building on a 30-acre site.



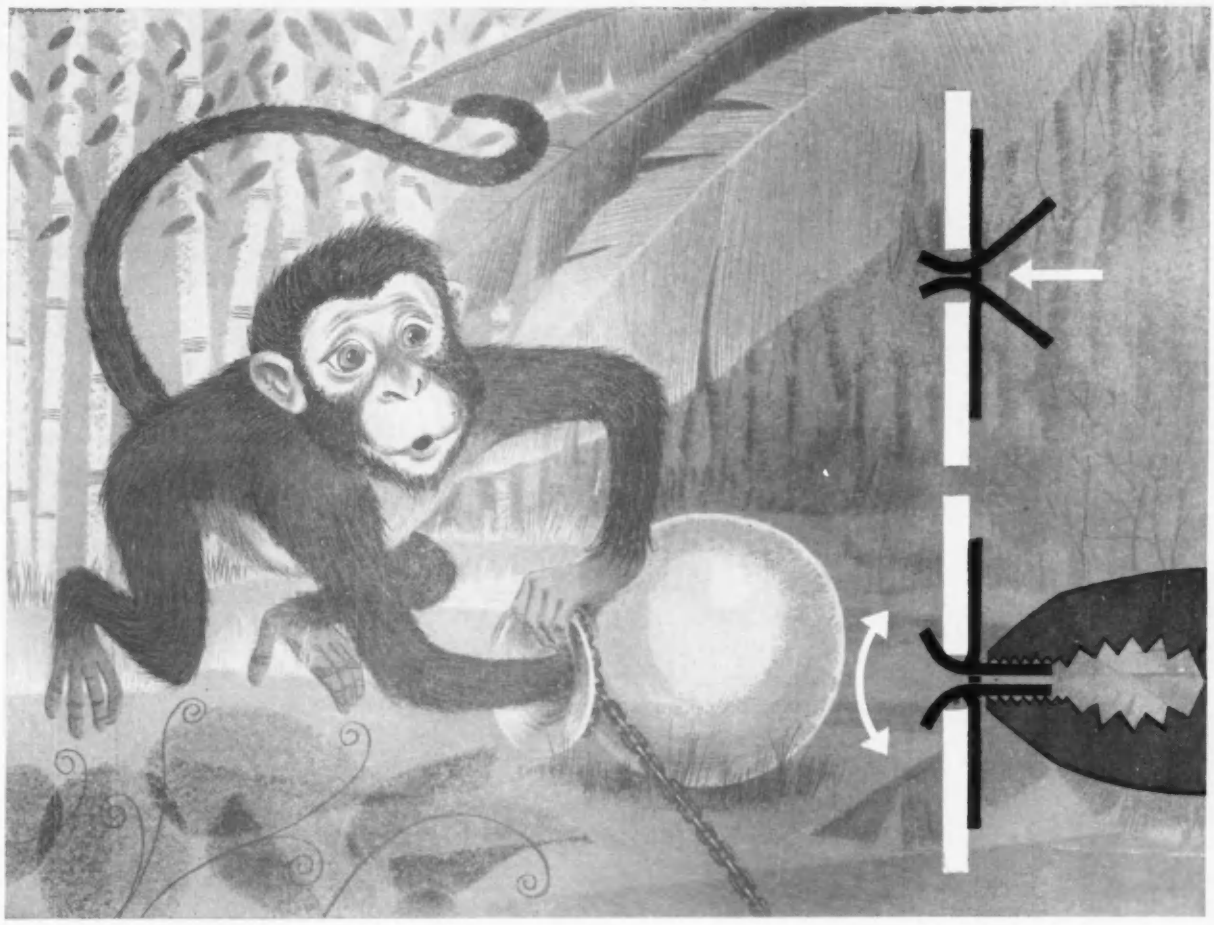
**View of Fansteel Metallurgical Corp.'s "white room" in new silicon rectifier plant in North Chicago, Ill. The new plant is a windowless, two-story structure.**

## Smith Research Center

A. O. Smith Corp. plans a $2 million advanced research center at Middleton, Wis. L. B. Smith, president, said the center will be located on an 80-acre site. Completion of the 50,000-sq ft building is expected in mid-1961. The laboratory will be devoted to advance research in the physics and chemistry of materials and the energy processes involved in the utilization of materials.

## M&T Enlarges Laboratory

Metal & Thermit Corp. has established an enlarged laboratory in Detroit for electroplating analytical and technical services. The laboratory headquarters a technical staff qualified for field consultation on electroplating problems. Peter G. Kenedi is laboratory supervisor.



# TRAPPED BY A GRIP THAT WON'T LET GO!

## See how Tinnerman "pinch-grips" hold front-mounting attachments; no special equipment needed

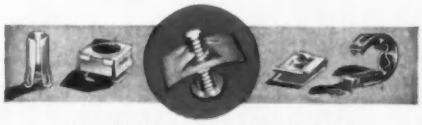
Typical of Tinnerman *new approaches to old problems* are "pinch-grip" SPEED CLIPS—permitting front-of-panel applications in a second's time. SPEED CLIPS are simply inserted into mounting holes and a plier's pinch gives permanent retention.

SPEED CLIPS can increase production rates, eliminate rejects, cut assembly costs as much as 50%. Many different features may be incorporated in the SPEED CLIP design to fasten cables, wire harness, rubber feet, mouldings, and for scores of other assemblies.

You may have a fastening problem that can be solved—or a product which can be improved—by this SPEED CLIP principle. Your Tinnerman specialist (see the Yellow Pages) can furnish samples and help you in many ways. Or write:

**TINNERMAN PRODUCTS, INC.**
**Dept. 12 • P. O. Box 6688 • Cleveland 1, Ohio**

**TINNERMAN**
***Speed Nuts®***



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CANADA: Dominion Fasteners Ltd., Hamilton, Ontario. GREAT BRITAIN: Simmonds Aerocessories Ltd., Treforest, Wales. FRANCE: Simmonds S. A., 3 rue Salomon de Rothschild, Suresnes (Seine). GERMANY: Mecano-Bundy GmbH, Heidelberg.



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Cut production costs by employing the features of dependable, air-operated Buckeye Automation Tools:

- Small offset, as close as 1¾" center distance
- Models from 650 to 22,000 RPM
- Adjustable stroke 0 to 2" with micrometer accuracy
- Adjustable feed rate
- One type of tool features total stroke of 2", of which 1" may be fully hydraulically controlled, preventing break-through damage to material and to sensitive cutting tools . . . also incorporates adjustable rapid approach for minimum cycling time.
- Tool accessories provide signals to control mechanisms which will automatically shut tool off . . . actuate other tools for subsequent operations . . . or automatically position the next part.
- Buckeye engineers will work with you in applying these tools to fit your requirements for drilling, tapping, fastening, grinding, reaming, counterboring and wire brushing.

*write today for descriptive literature, tracing templates and prices*

**Buckeye Tools**
CORPORATION
P. O. BOX 966, DAYTON 1, OHIO
*Pioneering Power Tools for Industry Since 1920*


## MODERN TOOLS

(*Continued from page* 101)

dollars further—represents a positive contribution to the nation's defenses. When a contractor tells me that he can slice lead time, reduce machine manhours, cut down tool inventory and maintenance costs, I am ready to shake his hand.

Let me say that I have grave doubt whether that kind of result can be expected from yesterday's tooling because we are no longer concerned with yesterday's weapons. We are actively interested in tool innovations, but the implementation of that interest is limited by the number of dollars I mentioned earlier.

It is most encouraging to note that the machine tool industry is exploiting such new approaches as numerical control programming. I understand that 500 of these devices were produced last year and that tape programming is gaining favor rapidly throughout industry. There is a great potential, I believe, in the storage of tapes for emergency production of spare parts because this seems to be excellent insurance for uniformity where close tolerances are mandatory.

### Industry Benefits

Our partnership with industry is a well-traveled and two-way street. Industry has benefited from the military missile programs, and this double dividend from the defense dollar has many other instances. I want to mention a few indicative of the broad scope of our work, and then tell you of some promising things currently in progress.

One of our research facilities, the Diamond Ordnance Fuze Laboratories, employed several new manufacturing techniques in the development of a waveguide coiling machine. Those techniques have been adopted by industry engaged in this line as well as in the machining of ferrite material. Similarly a number of producers have been given complete information on the DOFL techniques of electrodeposition of metal on bakelite, various glass epoxies and dip brazing of aluminum fabrications. The

(*Turn to page* 118, *please*)



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## interchangeable with all standard JIC cylinders

**CHECK THESE 10 POINTS OF T-J SUPERIORITY**

1 One Piece Piston

2 Hard Chrome Cylinder Bore and Piston Rods

3 High Tensile Steel Tie-Rods

4 Cushion Adjusting Screw, Externally Adjustable

5 New Super-Cushion for air, or Self-Aligning Master Seal for Oil (T-J Patents)

6 Solid Steel Heads and Mounting Plates Standard all Models

7 Port Design Allows Minimum Pressure Drop on Inlet or Outlet

8 Chevron Type, Self-Adjusting Rod Packing

9 Piloted Packing Gland—Absolute Alignment

10 Piston Rod, Extra Strong—Polished and Chrome Plated for Efficiency and Protection

With the introduction of the ALL NEW T-J Squair Head, Tomkins-Johnson now offers industry the most complete design range of air and hydraulic cylinders. Presently available in bore diameters from 1½ to 8 inches, the T-J Squair Head is an interchangeable cylinder which produces maximum force and efficiency, with minimum pressures . . . and is also adaptable to the use of low pressure oil as the working medium. Write to The Tomkins-Johnson Co., Jackson, Michigan, for Bulletin #SQ 10-58 and complete details.

T-J TOMKINS-JOHNSON



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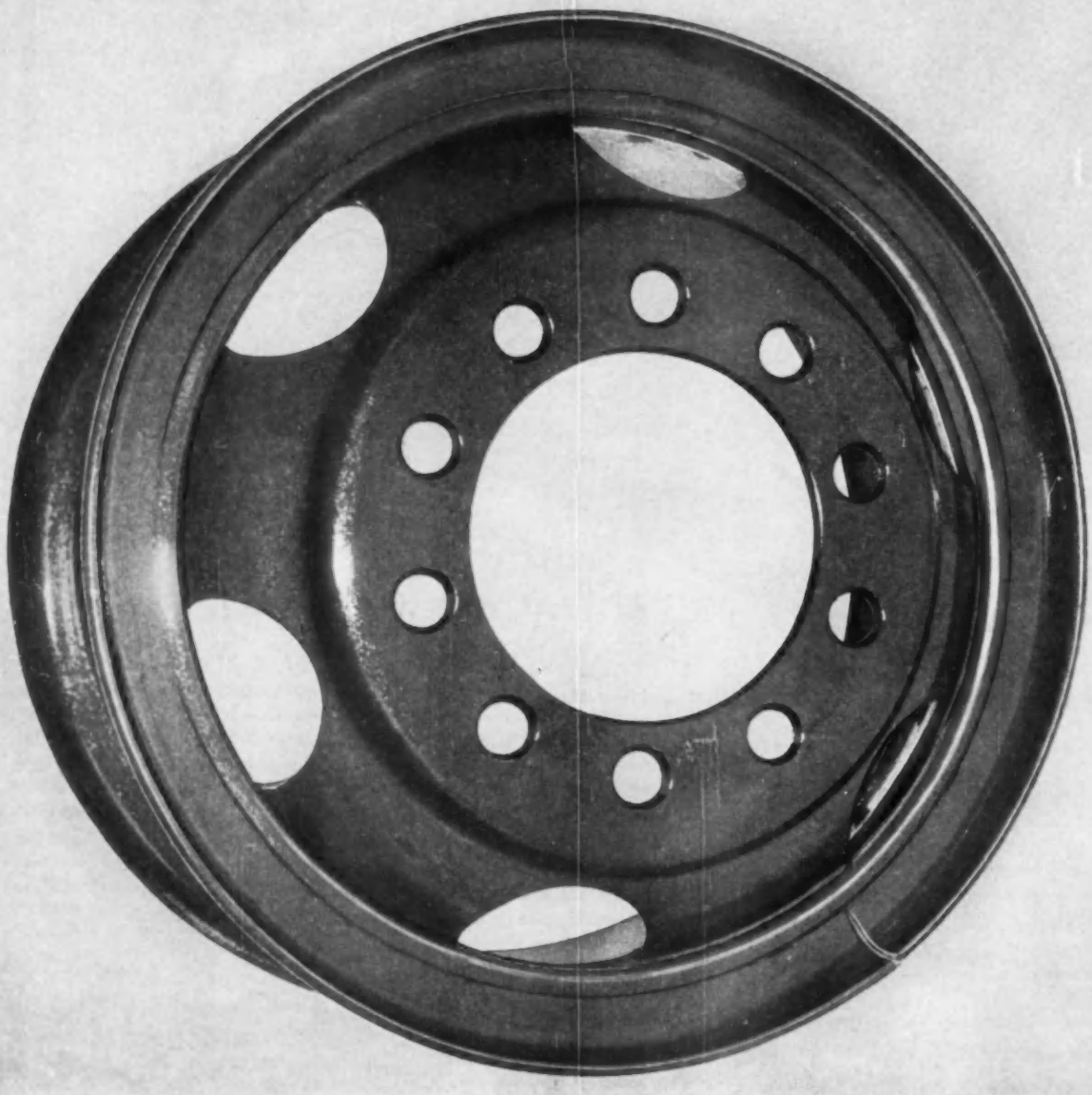
# Truck fleet travels 15 million miles reports: "minimum maintenance and



# a year,

# replacement" with steel disc wheels

Mr. Wesley Marks, Treasurer, M&M Transportation Co., Boston.

The M&M Transportation Company of Boston operates a fleet of 454 tractors and trailers along the East coast. They haul everything from fresh produce to steel, and log some 15 million miles per year. All wheels on all tractors and trailers are steel, and Mr. Wesley Marks, Treasurer, reports "a very minimum of maintenance and replacement."

"Because of the strength characteristics of the steel used in disc wheels, we get truer tire wear," Mr. Marks says. "The tire wears evenly and that gives us maximum mileage. We have 60 new trailers coming and they will be equipped with steel wheels. I have been in the trucking business for 20 years and have not found anything as safe and dependable as steel disc wheels."

There are other good reasons why steel disc wheels are best: because they maintain their roundness and alignment, they give a smoother ride, increase vehicle life, and are easier on driver *and* cargo. And steel disc wheels are specially designed for high-speed, long-range operations. For replacement, or for original equipment, always specify steel wheels —you'll be sure of longer service life, greater economy, and unequaled safety. The extra tire mileage is a bonus.

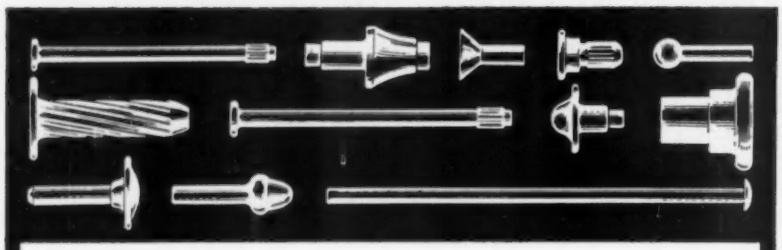
*USS is a registered trademark*

USS

United States Steel Corporation—Pittsburgh
Columbia-Geneva Steel—San Francisco
Tennessee Coal & Iron—Fairfield, Alabama
United States Steel Export Company
**United States Steel**

This mark tells you a product is made of modern, dependable Steel.

Watch United States Steel's special Christmas show, **The Coming of Christ**, in Color on NBC-TV, Wednesday, December 21, 8:30 P.M., E.S.T.



## Job-Designed Rivets for Every Industry

Hassall

Here is a fast, dependable, low cost, quality minded source of supply for JOB-DESIGNED fasteners of all types, in any metal, to fit your own assembly problem. Assembly costs are a very major part of manufacturing expense. Most of this is labor. The fastening medium itself is usually a minimum item. If a Job-Designed fastener makes assembly simpler and faster, permits the use of fewer fasteners, allows the designer functional freedom and improves product efficiency, yours is a specifying job well done. All these possibilities are available when you come to Hassall for design assistance and quotation on challenging, difficult or unusual rivets, threaded nails, drive screws and other cold headed parts. Short or long runs, pilot quantities, engineering counsel, over 100 years of intimate association with cold heading—and a deep appreciation for the concept of value analysis—all are part of the Hassall service to you.

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## New Production Equipment

(*Continued from page* 92)

### Lathe for Ceramic Tooling

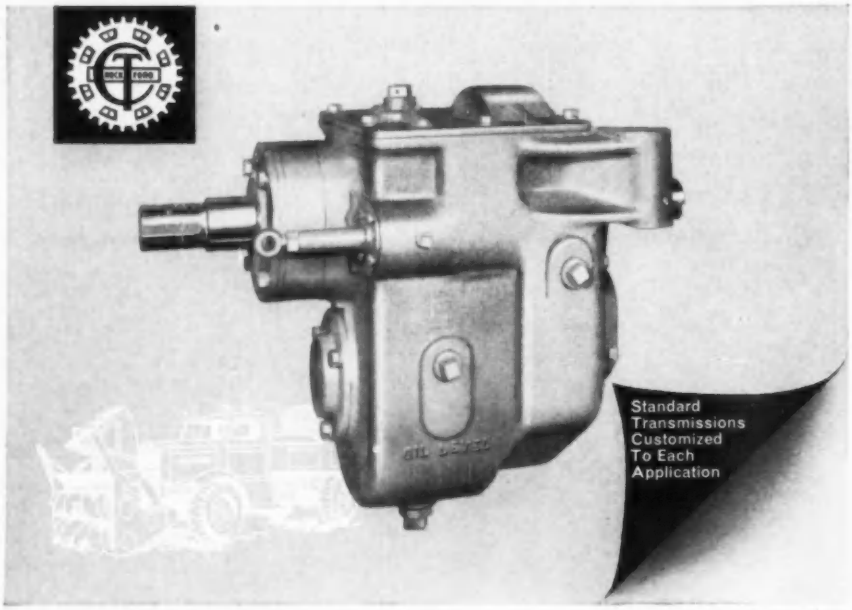
CALLED the Superturn, a preselect engine lathe, features a design expressly suited to the requirements of ceramic tooling. With 3 speed ranges of 32 speeds: 8 to 1016 rpm in the standard range, 10 to 1246 in the intermediate range and 12 to 1528 rpm in high range, a maximum of 60 hp capacity is provided.

The Superturn is available in two models, 2516 with a swing capacity of 16 in. diameter over the cross slide and 28 in. over the bed and carriage wings and 2516-21 which swings 21 in. over the cross slide and 32½ in. over the bed and carriage wings. Base length on both machines is 48 in.; extra bed length is available in 24 in. increments.

Offsetting the lathes' extra size and rugged construction, they are equipped with both powershift preselect for preselected automatic shifting and 4-way power rapid traverse for effortless moving and positioning of the carriage. *The Lodge and Shipley Co.*

Circle 65 on Inquiry Card for more data


## Add "creep" control with Cotta auxiliary transmissions!

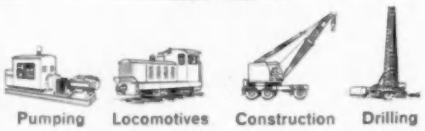



Need "creeping" speed for special truck, crane, or materials-handling operations? Cotta's heavy-duty auxiliary transmissions add slow-speed control to special jobs by further reducing engine speeds carried through standard transmissions.

Snowplows, for example, use 9:1 ratio of Cotta's TS auxiliary transmission for full power while crawling through heavy snow — shift to 1:1 ratio for over-the-road runs. Model TS employs amidship mounting and uses mechanical or power shift.

Cotta auxiliary transmissions with two speeds forward, or forward and reverse, can be custom-designed with individual chassis mountings for a wide variety of special heavy-duty operations. See our catalog in *Sweet's Product Design File.* Then call Cotta (TWX-RK-7720 or phone WO 4-5671) for details.

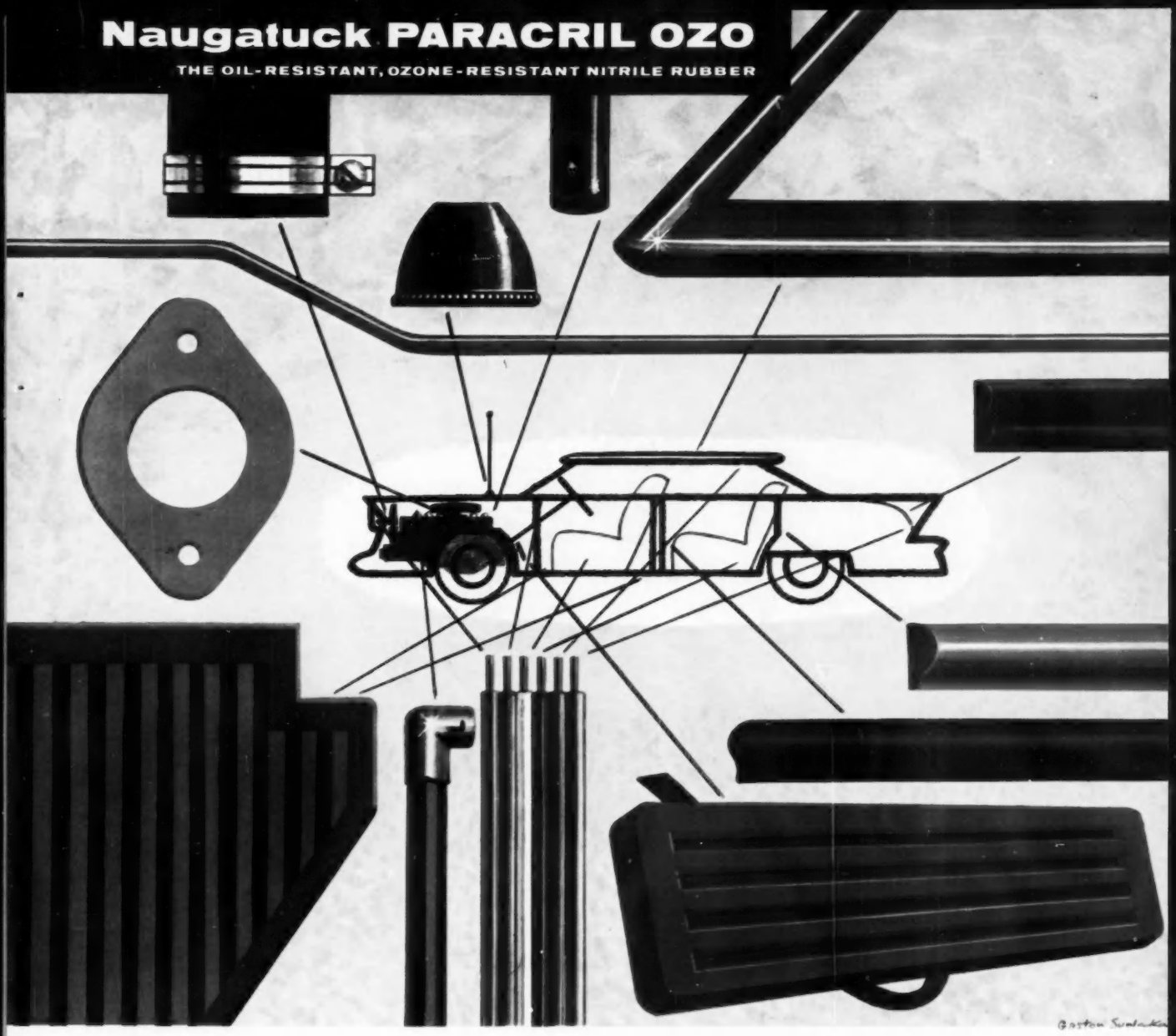
**COTTA**
HEAVY-DUTY TRANSMISSIONS




COTTA TRANSMISSION CO., ROCKFORD, ILLINOIS

Circle 173 on Inquiry Card for more data

Circle 174 on Inquiry Card for more data →




# Great new advance in automotive rubber

Here is a new rubber that's unmatched for oil, weather, and abrasion resistance. It's new PARACRIL® OZO, the finest achievement yet in the nitrile rubber field. PARACRIL OZO's properties are tailor made for many modern automotive parts—for everything from weather stripping to oil seals and hose. PARACRIL OZO gives you a whole series of important advantages, including:

- significantly superior ozone resistance
- excellent fuel and oil resistance
- several times greater abrasion resistance
- permanent retention of bright colors for exterior styling and easily traceable wiring and other interior parts

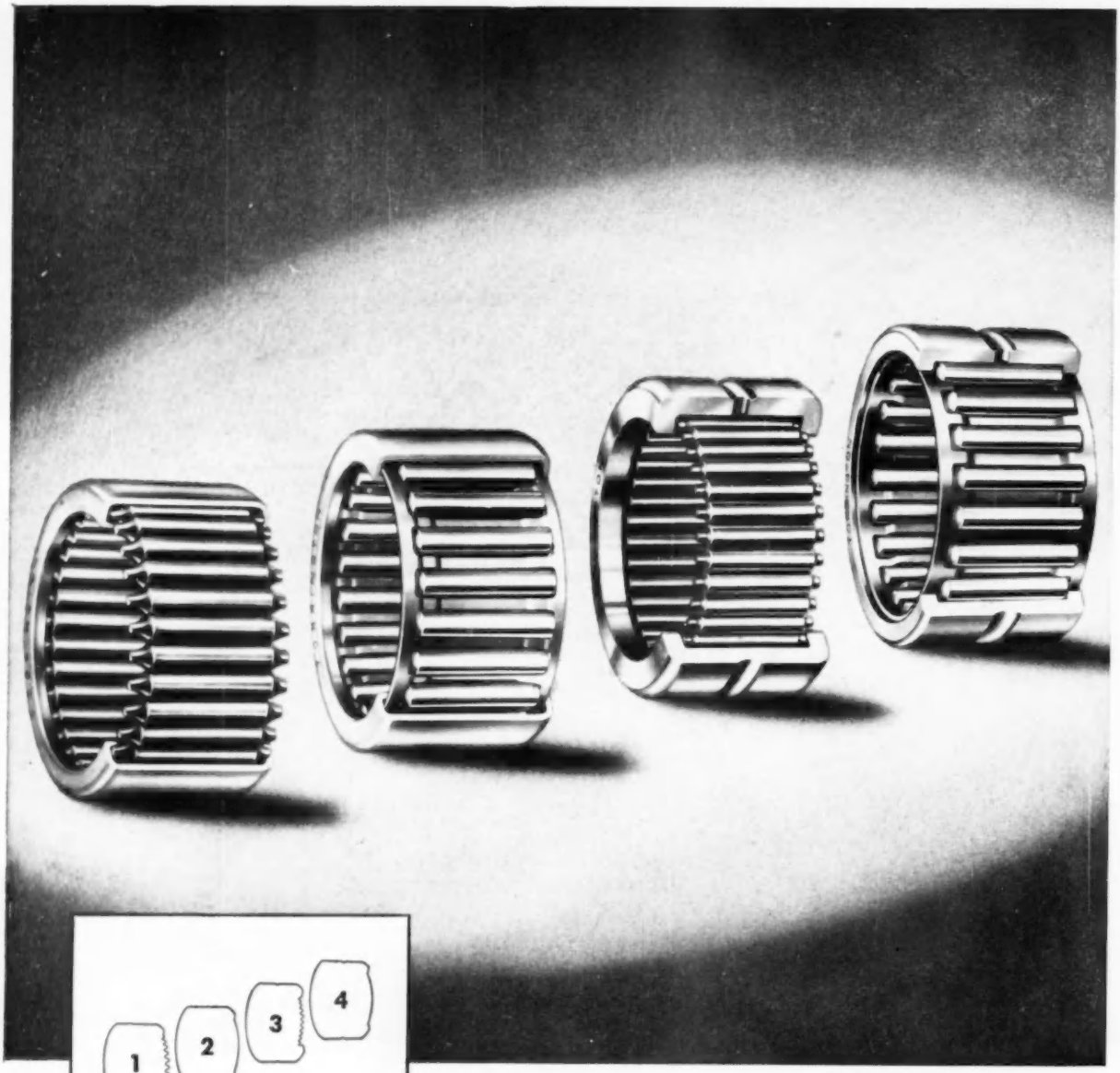
Look into PARACRIL OZO. Discover for yourself its new design possibilities...its unlimited color...its high quality. Contact your nearest Naugatuck representative at the address below.

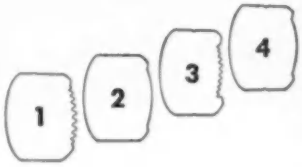
**Naugatuck Chemical**

**Division of United States Rubber Company** Dept. A Elm Street Naugatuck, Connecticut

US RUBBER

Rubber Chemicals · Synthetic Rubber · Plastics · Agricultural Chemicals · Reclaimed Rubber · Latices · CANADA: Naugatuck Chemicals Division, Dominion Rubber Co., Ltd., Elmira, Ontario · CABLE: Rubexport, N.Y.






**Torrington Drawn Cup Needle Bearing** . . . for maximum radial capacity in minimum cross section . . . positioned by press fit—snap rings or shoulders unnecessary . . . runs directly on hardened shaft . . . most compact, light weight, economical.

**Torrington Drawn Cup Roller Bearing** . . . for higher speeds or long pregreased life . . . thin section race for simple press fit . . . runs directly on hardened shafts . . . unit construction for easy assembly . . . shaft-riding retainer.

**Torrington Heavy Duty Needle Bearing** . . . for use with thin section or split housing where extreme impact loads require heavy outer race . . . maximum shock resistance . . . full roller complement . . . unit construction.

**Torrington Heavy Duty Roller Bearing** . . . for combination of high speed, long pregreased life or shock resistance . . . roller stability provided by end-guiding . . . flange-riding retainer . . . unit design.

All of these types of bearings are available with inner races.

# Only Torrington Makes All Four!

Torrington developed the Needle Bearing and its specialized variations. This breadth of experience assures impartial engineering recommendations based on specific application requirements. You can rely on Torrington to recommend the most compact and economical design compatible with operating conditions and performance requirements. Call on your Torrington representative for help in applying the right bearing in the right place. **The Torrington Company, Torrington, Conn.—and South Bend 21, Indiana.**

## TORRINGTON BEARINGS

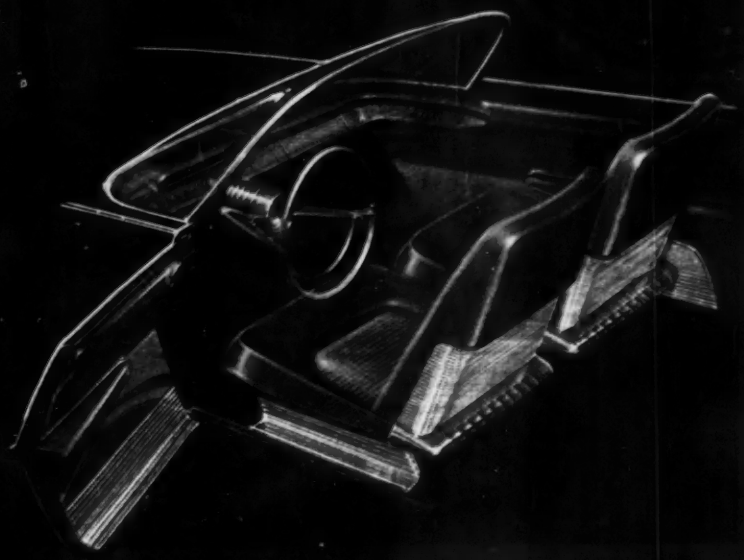
*Every Basic Type of Anti-friction Bearing*

NEEDLE • SPHERICAL ROLLER • TAPERED ROLLER • CYLINDRICAL ROLLER • NEEDLE ROLLERS • BALL • THRUST



Circle 175 on Inquiry Card for more data

Circle 176 on Inquiry Card for more data →

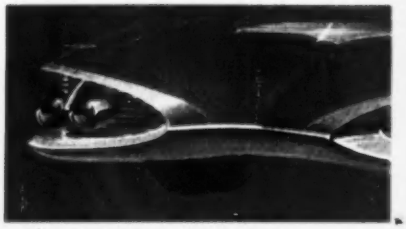


# Aluminum Trim

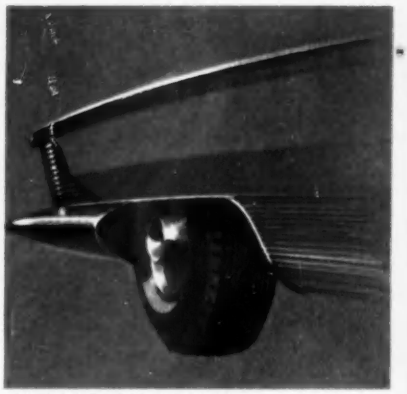
combines lasting, sales-appealing beauty with fabricating and finishing economy

# Exterior Trim

WINDOW AND PILLAR MOULDINGS



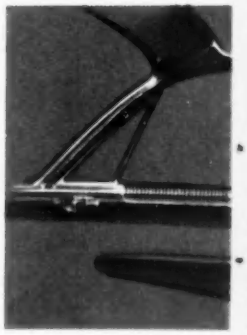
GRILLE AND GRILLE MOULDINGS

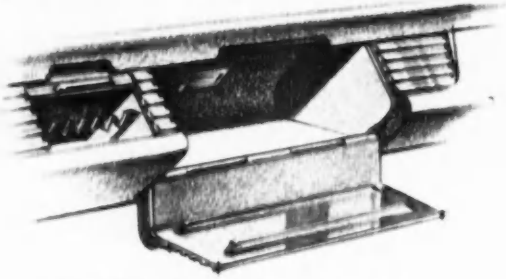


SIDE MOULDINGS

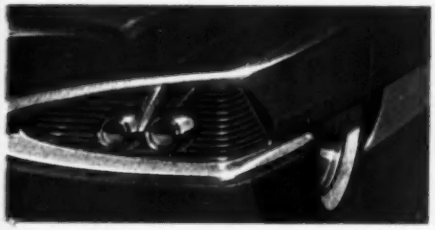
# Interior Trim

SEAT SKIRTS AND SEAT BACK TRIM

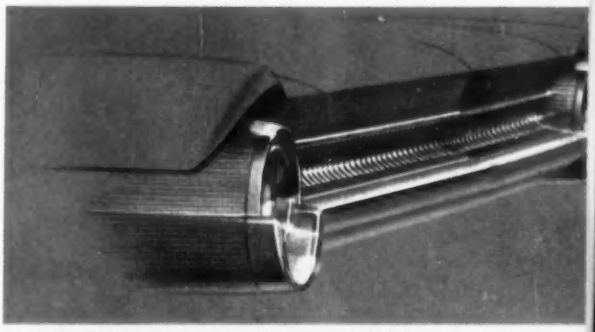




ASH TRAYS AND COVERS—
GLOVE BOX DOORS

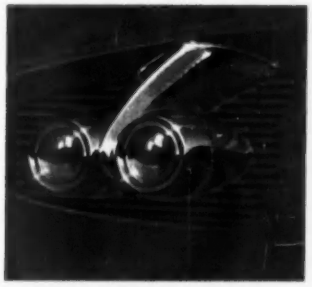


WINDSHIELD AND ROOF MOULDINGS

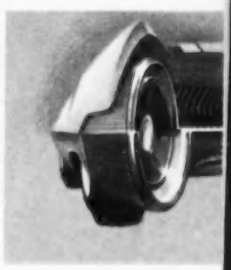


REAR BUMPER OR DECK TRIM—QUARTER PANEL APPLIQUES

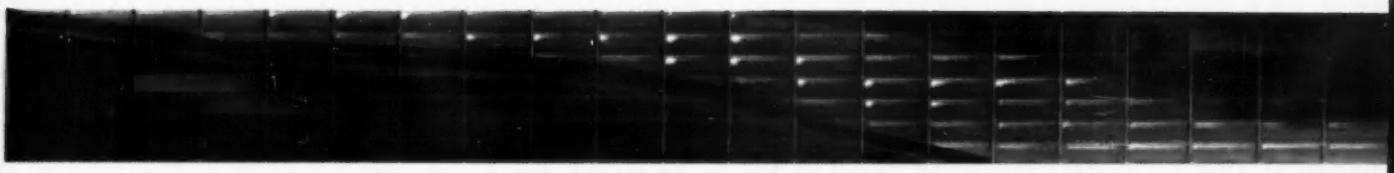
HUB CAPS—WHEEL COVERS

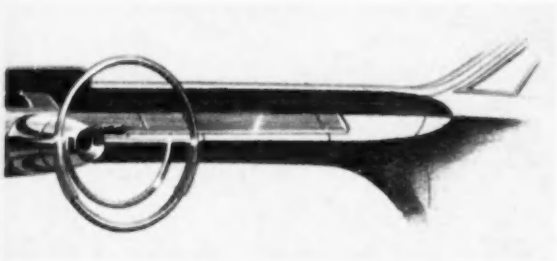


HEADLAMP BEZELS

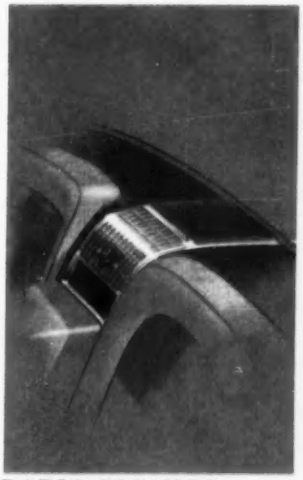


TAIL LAMP HOUSINGS



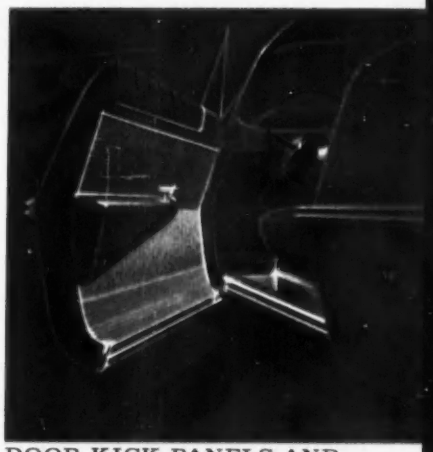


INSTRUMENT PANELS AND TRIM

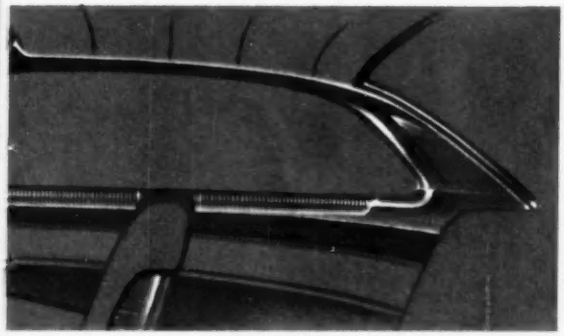


RADIO SPEAKER GRILLE

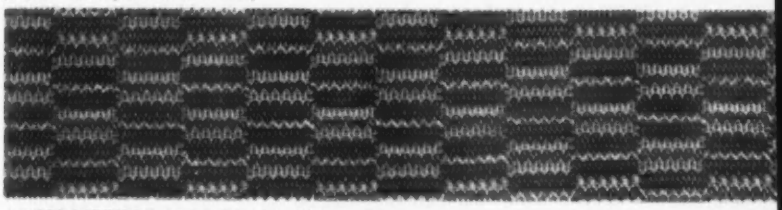
(expanded or perforated metal)



DOOR KICK PANELS AND SCUFF PLATES



WINDOW MOULDINGS—PILLAR COVER TRIM



ALUMINUM YARN (REYMET)

TRADE MARK

# Aluminum Trim

## combines lasting, sales-appealing beauty with fabricating and finishing economy

*Here are some of the reasons why you can get these important sales and manufacturing advantages with aluminum:*

**Aluminum's versatility in fabrication contributes to production savings and better part quality**

There is one major reason why aluminum trim can save you money: *aluminum is adaptable to a variety of manufacturing techniques.* Because of this versatility, aluminum makes possible savings in tooling, fabricating, finishing and assembly costs—a combination of savings that cannot be obtained with other materials.

A good example is a typical aluminum exterior trim package. A standard package based on body mouldings, window mouldings, grille, grille opening mouldings, and hub caps runs $8.00 to $14.00 less per car than the same package in other metals. Conservatively, the average aluminum package saves $10.00 per car. Here are ways aluminum's versatility contributes to this saving.

Aluminum trim parts can be stamped, roll formed or extruded. As an example of the former, consider a side trim overlay framed with mouldings of another metal. This part can be made as a single aluminum stamping with embossing in the overlay area with bright surrounding mouldings—all in a single die. Tooling costs can be reduced. Substantial savings in assembly costs can also be realized. Similar savings can result from the roll formed aluminum approach as effectively used in several 1961 models. Although more commonly used in areas other than side trim, aluminum extrusions are still another approach where unusual variations in styling and design can be obtained with extremely low tooling costs.

**Aluminum's versatility in finishing is an important cost and quality advantage**

In finishing, aluminum's versatility again pays dividends in reducing part costs and improving part quality. Aluminum can be clear or color anodized. Contrasting colors can be added through the use of organic finishes. And, paint films adhere to anodized aluminum better than to other bright materials used for decorative applications. Warranty costs are reduced. A better appearance is assured over a longer service life.

Parts made of other metals must be buffed for maximum corrosion resistance. Some moulding parts, if not buffed on the back and edges, will rust with subsequent bleeding over the painted surface of the car. *Aluminum will not rust—ever.* Anodizing aluminum parts is much less expensive than chrome plating other materials. The final piece price of anodized aluminum parts is even less expensive than chrome flashed parts.

**New aluminum textures and finishes contribute to design freedom and add sales-appealing beauty**

There are wide varieties of aluminum textures, finishes and color combinations available to complement modern automobile exteriors and interiors. This variety is of particular interest in interior trim styling where aluminum trim parts lend themselves to a wide range of design ideas and also permit low cost styling changes.

**Why it helps to call on Reynolds for trim package planning**

The examples above are just a small part of the fabricating and finishing cost story made possible by strong, lightweight, rustfree aluminum—Reynolds Aluminum. For full details, talk to Reynolds Aluminum Specialists. These men are experienced in working with automotive companies on aluminum requirements, and they can put Reynolds many services and facilities to work for you. They will help you plan an aluminum trim package that will save you money and also help improve your products. Write or phone *Reynolds Metals Company, P.O. Box 5050, Detroit 35, KEnwood 7-5000. Or contact your nearest Reynolds office or write P.O. Box 2346-MZ, Richmond 18, Virginia.*

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**NOTE: Before you buy any part—have it designed and priced in aluminum. Basic material costs do not determine part costs. New techniques and processes—applicable only to aluminum—can give you a better product at a lower final cost.**

**REYNOLDS ALUMINUM**

the metal for *automation*

TRADE MARK

Watch Reynolds new TV Show "Harrigan & Son," Fridays; also "All Star Golf," Saturdays—ABC-TV.

# INDUSTRY STATISTICS

By Marcus Ainsworth, STATISTICAL EDITOR

## WEEKLY U. S. MOTOR VEHICLE PRODUCTION

*As reported by the Automobile Manufacturers Association*

| Make | Weeks Ending Nov. 26 | Weeks Ending Nov. 19 | Year to Date 1960 | Year to Date 1959 |
|---|---|---|---|---|
| **PASSENGER CAR PRODUCTION** | | | | |
| Total—American Motors | 6,031 | 10,532 | 436,938 | 359,260 |
| Chrysler | 1,436 | 1,770 | 78,492 | 63,195 |
| De Soto | 186 | 263 | 19,350 | 39,217 |
| Dodge | 1,662 | 6,215 | 347,422 | 173,095 |
| Imperial | 237 | 368 | 15,306 | 18,792 |
| Lancer | 602 | 1,736 | 46,156 | ..... |
| Plymouth | 2,874 | 5,423 | 232,988 | 371,628 |
| Valiant | 911 | 4,247 | 218,492 | 8,756 |
| Total—Chrysler Corp. | 7,908 | 20,022 | 958,206 | 674,683 |
| Comet | 3,367 | 4,264 | 182,782 | 29,677* |
| Falcon | 7,261 | 9,803 | 464,040 | 61,178 |
| Ford | 15,897 | 21,893 | 910,382 | 1,313,875 |
| Lincoln | 595 | 478 | 15,924 | 26,486 |
| Mercury | 1,547 | 3,973 | 147,174 | 139,794 |
| Total—Ford Motor Co. | 28,667 | 40,411 | 1,720,302 | 1,571,010 |
| Buick | 5,633 | 6,062 | 244,453 | 209,201 |
| Buick Special | 2,351 | 2,780 | 26,073 | ..... |
| Cadillac | 2,704 | 3,366 | 142,778 | 126,651 |
| Chevrolet | 32,302 | 37,065 | 1,469,181 | 1,252,034 |
| Corvair | 5,977 | 6,796 | 230,608 | 57,025 |
| Oldsmobile | 6,782 | 7,821 | 332,077 | 337,192 |
| Oldsmobile F-85 | 2,212 | 2,737 | 28,249 | ..... |
| Pontiac | 5,793 | 7,006 | 386,035 | 360,273 |
| Tempest | 3,153 | 3,331 | 17,273 | ..... |
| Total—General Motors Corp. | 66,907 | 76,964 | 2,876,727 | 2,342,376 |
| Total—Studebaker-Packard Corp. | 1,617 | 1,825 | 99,201 | 140,001 |
| Checker Motors | 90 | 113 | 6,433 | 4,461 |
| Total—Passenger Cars | 111,220 | 149,867 | 6,097,807 | 5,091,791 |
| **TRUCK AND BUS PRODUCTION** | | | | |
| Chevrolet | 5,456 | 7,517 | 360,162 | 305,244 |
| G. M. C. | 991 | 1,496 | 94,242 | 71,261 |
| Diamond T | 24 | 31 | 2,353 | 5,108 |
| Divco | 48 | 24 | 3,378 | 3,444 |
| Dodge and Fargo | 243 | 1,637 | 65,129 | 66,554 |
| Ford | 7,716 | 8,245 | 301,192 | 304,567 |
| F. W. D. Corp. | 9 | 15 | 812 | 972 |
| International | 681 | 687 | 110,989 | 132,474 |
| Mack | 19 | 277 | 13,515 | 15,791 |
| Studebaker | 154 | 189 | 11,884 | 10,697 |
| White | 182 | 211 | 14,461 | 18,073 |
| Willys | 1,626 | 1,657 | 114,952 | 104,784 |
| Other Trucks | 60 | 70 | 3,985 | 3,561 |
| Total—Trucks | 17,209 | 22,056 | 1,097,004 | 1,042,530 |
| Buses | 60 | 115 | 3,790 | 2,282 |
| Total—Motor Vehicles | 128,489 | 172,038 | 7,198,601 | 6,136,603 |

* Edsel production.

## 1960 TRUCK TRAILER SHIPMENTS

*Industry Division, Bureau of the Census*

| Type of Trailer | September | Nine Months 1960 | Nine Months 1959 |
|---|---|---|---|
| Vans | | | |
| Insulated and refrigerated | 384 | 4,397 | 4,286 |
| Steel | 32 | 607 | 589 |
| Aluminum | 352 | 3,790 | 3,697 |
| Furniture | 79 | 1,690 | 1,207 |
| Steel | 63 | 1,470 | 987 |
| Aluminum | 16 | 220 | 220 |
| All other closed-top | 1,750 | 20,675 | 21,696 |
| Steel | 515 | 4,944 | 5,948 |
| Aluminum | 1,235 | 15,731 | 15,748 |
| Open-top | 168 | 2,212 | 2,259 |
| Steel | 49 | 621 | 920 |
| Aluminum | 119 | 1,591 | 1,339 |
| Total—Vans | 2,381 | 28,974 | 29,448 |
| Tanks | | | |
| Non- and low-pressure | | | |
| Petroleum and aircraft refuelers | | | |
| Carbon and alloy steel | 105 | 1,171 | 1,763 |
| Stainless steel | 16 | 197 | 231 |
| Aluminum | 131 | 1,380 | 1,302 |
| Total—Petroleum | 252 | 2,748 | 3,296 |
| Chemical, food, and sanitary | 55 | 587 | 392 |
| Dry materials | 32 | 966 | 1,242 |
| High-pressure (LPG, chemicals, etc.) | 25 | 265 | 263 |
| Total—Tanks | 364 | 4,566 | 5,193 |
| Pole, pipe, and logging | | | |
| Single axle | 17 | 170 | 292 |
| Tandem axle | 28 | 650 | 929 |
| Total | 45 | 820 | 1,221 |
| Platforms | | | |
| Racks, livestock, and stake | 33 | 330 | 410 |
| Grain bodies | 61 | 931 | 1,318 |
| Flats, all types | 496 | 6,957 | 7,843 |
| Total—Platforms | 590 | 8,218 | 9,571 |
| Low-bed heavy haulers | 155 | 1,615 | 1,959 |
| Dump trailers | 87 | 1,211 | 1,887 |
| All other trailers | 301 | 2,752 | 2,184 |
| Total—Complete Trailers | 3,923 | 48,156 | 51,463 |
| Dump trailer chassis[1] | 19 | 654 | ..... |
| Trailer chassis only[1] | 172 | 2,423 | 3,061 |
| Total—Trailers and Chassis | 4,114 | 51,233 | 54,524 |
| Detachable van bodies[1] | 180 | 2,570 | 3,014 |

[1] Sold separately.

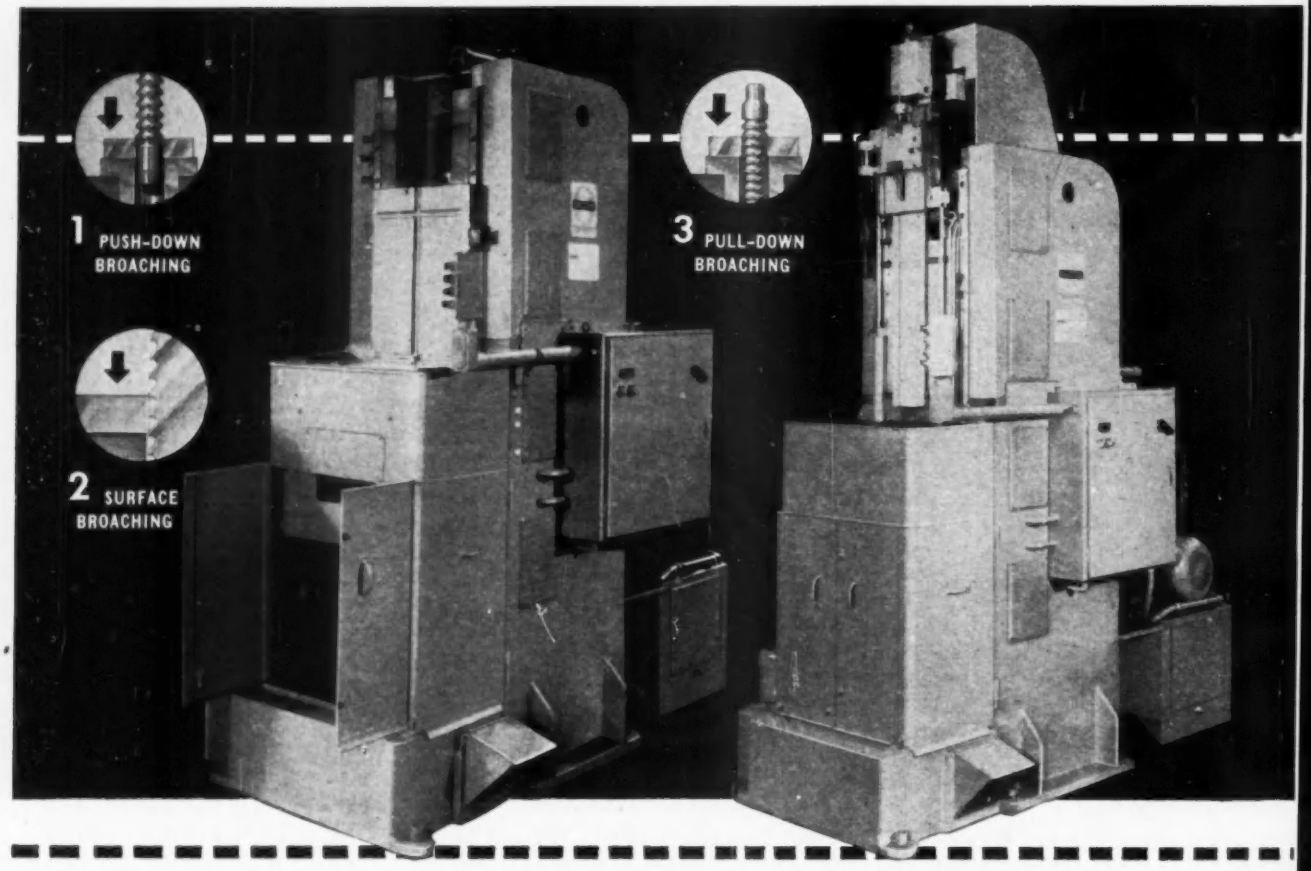
## NEW PASSENGER CAR REGISTRATIONS BY REGIONS*

| Zone | Region | September 1960 | August 1960 | September 1959 | Nine Months 1960 | Nine Months 1959 | Per Cent Change: Sept. over August | Per Cent Change: Sept. over Sept. 1959 | Per Cent Change: Nine Months 1960 over 1959 |
|---|---|---|---|---|---|---|---|---|---|
| 1 | New England | 27,750 | 30,328 | 26,116 | 286,029 | 245,429 | − 8.50 | + 6.26 | +16.54 |
| 2 | Middle Atlantic | 86,694 | 107,199 | 76,385 | 973,501 | 819,253 | −19.13 | +13.50 | +18.83 |
| 3 | South Atlantic | 63,033 | 69,507 | 61,889 | 657,025 | 612,320 | − 9.31 | + 1.85 | + 7.34 |
| 4 | East North Central | 108,025 | 123,560 | 110,569 | 1,236,811 | 1,182,785 | −12.57 | − 2.30 | + 4.57 |
| 5 | East South Central | 17,582 | 22,857 | 18,496 | 222,132 | 206,529 | −23.08 | − 4.94 | + 7.55 |
| 6 | West North Central | 37,639 | 49,784 | 39,877 | 412,123 | 417,679 | −24.40 | − 5.91 | − 1.33 |
| 7 | West South Central | 38,105 | 43,967 | 47,952 | 399,437 | 412,604 | −13.33 | −20.54 | − 3.19 |
| 8 | Mountain | 17,788 | 19,161 | 18,185 | 172,488 | 170,602 | − 7.17 | − 2.18 | + 1.11 |
| 9 | Pacific | 62,149 | 59,037 | 58,965 | 582,323 | 579,048 | + 5.27 | + 5.40 | + 0.57 |
| | Total—United States | 458,765 | 525,400 | 458,434 | 4,941,869 | 4,646,249 | −12.68 | + 0.07 | + 6.36 |

* Compiled from official state records. Data property of R. L. Polk & Co. May not be copied, sold or reprinted without Polk permission.

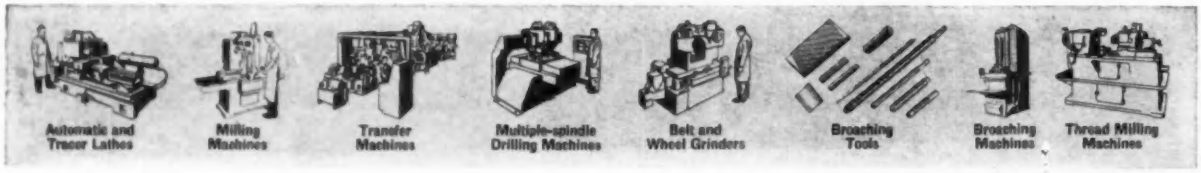
States comprising the various regions are: Zone 1—Conn., Me., Mass., N. H., R. I., Vt. Zone 2—N. J., N. Y., Pa. Zone 3—Del., D. of C., Fla., Ga., Md., N. C., S. C., Va., W. Va. Zone 4—Ill., Ind., Mich., Ohio, Wis. Zone 5—Ala., Ky., Miss., Tenn. Zone 6—Iowa, Kan., Minn., Mo., Neb., N. D., S. D. Zone 7—Ark., La., Okla., Tex. Zone 8—Ariz., Colo., Ida., Mont., Nev., N. M., Utah, Wyo. Zone 9—Alas., Cal., H. I., Ore., Wash.

# 4-WAY CONVERTIBLE

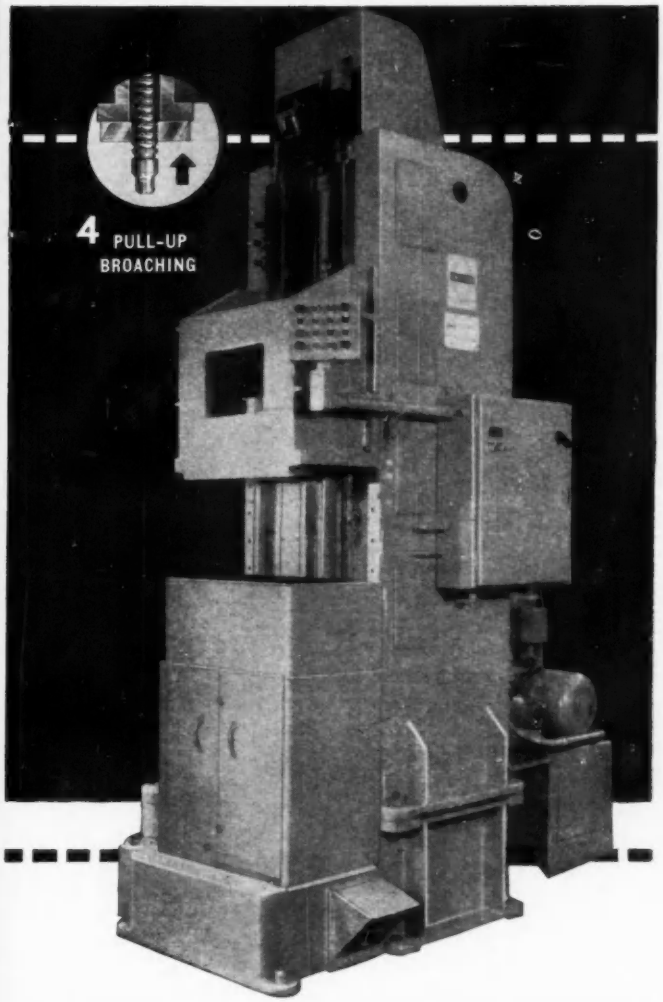



**New Sundstrand-American vertical broaching machines provide built-in protection against obsolescence due to changing work requirements. They can be converted at moderate cost in a matter of hours from any one arrangement to another — push-down, pull-down, pull-up, or surface broaching.**

| | BASIC MACHINE UNITS<br>Standard for Each Stroke-Tonnage Size | | | | CONVERSION ASSEMBLIES REQUIRED | | | |
|---|---|---|---|---|---|---|---|---|
| TYPE OF MACHINE | COLUMN | SLIDE | HYDRAULIC CYLINDER | HYDRAULIC POWER UNIT | PUSH-PULL LUG | HYDRAULIC BROACH RETRIEVER | SUB-BASE | |
| PUSH DOWN | | | | | | | | |
| SURFACE | | | | | | | | |
| PULL DOWN | | | | | | | | |
| PULL UP | | | | | | | | |



# BROACHING MACHINES




## ... new Sundstrand-American machines can be converted at moderate cost to meet any vertical broaching requirement

Each machine consists of the same four basic units: 1. machine column with hardened-and-ground rectangular ways, main cylinder mounting, and chip base; 2. broaching slide; 3. hydraulic cylinder unit; 4. hydraulic power unit. These four elements, together with interchangeable conversion assemblies shown in the chart below, make possible the simplified change-over.

Three types of worktables — fixed, sliding, and tilting — are available for surface broaching operations. The fixed table also is used for internal pull-down, pull-up, and push-down work.

The new machines are built in single- and dual-ram models, the dual units having a wider column which carries two complete main cylinders, guide ways, slides, and tables.

Both types are built in 5, 10, 15, 25, 40, and 50-ton capacities, with strokes from 30″ to 90″, depending on tonnage — 22 stroke-tonnage combinations in all. All operations are from a pushbutton station.

A wide variety of pull heads, in addition to Sundstrand-Engineered fixturing and broaching tools are available to insure maximum productivity on any broaching arrangement.

*For complete information, write for new Bulletin 222.*

**CONVERSION ASSEMBLIES REQUIRED**

| | FIXED TABLE | SLIDING TABLE | TILTING TABLE |
|---|---|---|---|
| | ■ | | |
| | | ■ | ■ |
| | ■ | | |
| | ■ | | |

SUNDSTRAND

**SUNDSTRAND-AMERICAN BROACHING EQUIPMENT**

**SUNDSTRAND MACHINE TOOL**

**BELVIDERE, ILLINOIS** • DIVISION OF SUNDSTRAND CORPORATION



Circle 171 on postcard for more data

## MODERN TOOLS

(*Continued from page* 104)

loss wax method of casting waveguide components, jointly developed by DOFL and Frankford Arsenal, has been standardized by industry and it marks a significant advance in precision casting.

### Auto-Frettage

The never-ending search for ways and means to reduce weight extends to cannon—though the current interest in cannon might seem an anachronism in the Missile Age. The fact is that the Army has a continuing requirement for guns because they can still do some jobs better. When it comes to continuous fires and close support, cannon are still preferable over the rocket.

Watervliet Arsenal has been at work to provide much lighter guns of the same firepower and thus to enhance their mobility. By the use of autofrettage, or the "cold working" principle, the Arsenal has increased the elastic strength of gun tubes appreciably. Large-scale hydraulic pressure equipment which exerts hydrostatic pressure is employed. It produces a beneficial residual stress in the gun tube by an initial overstrain pressure which causes the tube to permanently expand. Tube weight has been reduced 60 per cent when compared with monobloc or one-piece unstressed construction, and by 30 per cent compared with multilayered or shrunk construction. Savings in material and fabrication cost range from 10 to 40 per cent depending upon the individual applications. The new 105 mm M68 gun for the Army's new main battle tank is being produced by the cold-working process.

Now Watervliet is investigating the feasibility of applying the same process to the task of driving a mandrel through the gun bore by using much lower hydraulic pressures.

The potential of autofrettage is certainly not limited to gun tube manufacture, which is of relative low density. Industry has already referred to Watervliet a wide range of problems involving pressure vessels. The chemical industry, to mention one, is keenly interested in methods by which to attain higher pressures. The aircraft and missile industries are interested in maximum utilization of material weight in pressure problems. Ordnance engineers believe that autofrettage can be applied to increase strength or save weight in almost every use of thick-walled pressure vessels.

### Ceramic Tooling

Perhaps the most significant tooling development in our shops of the past decade has been ceramic tooling, in which Watertown Arsenal has played an important role. Recent tests conducted in the Watertown Laboratory have demonstrated that ceramic cutting tools having a new geometry show promise of machining alloy steels in the hardness range of 60 to 63 RC at a surface speed of 400 fpm, 0.030 in. depth of cut, and 0.005 in. per revolution feed.

Most of the Watertown contributions have been closely associated with materials development and prototype weapons fabrication.

(*Turn to page* 122, *please*)


*motors like these help your product* **STAY AHEAD** *of competition . . .*

Lamb® six-pole 400 cycle AC motor for operation submerged in jet fuel for booster pump drive. Frame: 2⅞ x 2½

Lamb® 27 volt DC shunt wound aircraft motor qualified to specification MIL-M-8609A (ASG) for small high speed pumps. Frame: 1³⁄₁₂ x 1⅛

Lamb® six-pole 400 cycle AC gearmotor for voltage regulating auto transformer. Frame: 1¾ x ⅞

Lamb® two-pole 60 cycle AC motor for electronic cooling fan. Frame: 2¼ x ¾

Lamb Electric works in so many fields—where motors that have vastly different jobs to do are sold to vastly different markets — that experience gained in one field often helps solve problems in other fields.

For example, we are able to incorporate in motors for appliances, portable electric tools, and similar products, developments that came about in research and engineering work on military and other precision motors.

This broad experience—available to all of our customers—is one way in which Lamb Electric special application motors can help your product stay ahead of competition.

Let us demonstrate the value of this experience in bringing to *your customers* improved products and to *you* more business and better profits.

**THE LAMB ELECTRIC COMPANY**
**KENT, OHIO**
A Division of American Machine and Metals, Inc.

*Lamb Electric*
SPECIAL APPLICATION FRACTIONAL HORSEPOWER **MOTORS**

**In Canada:** Lamb Electric Division of Sangamo Company Ltd.—Leaside, Ontario

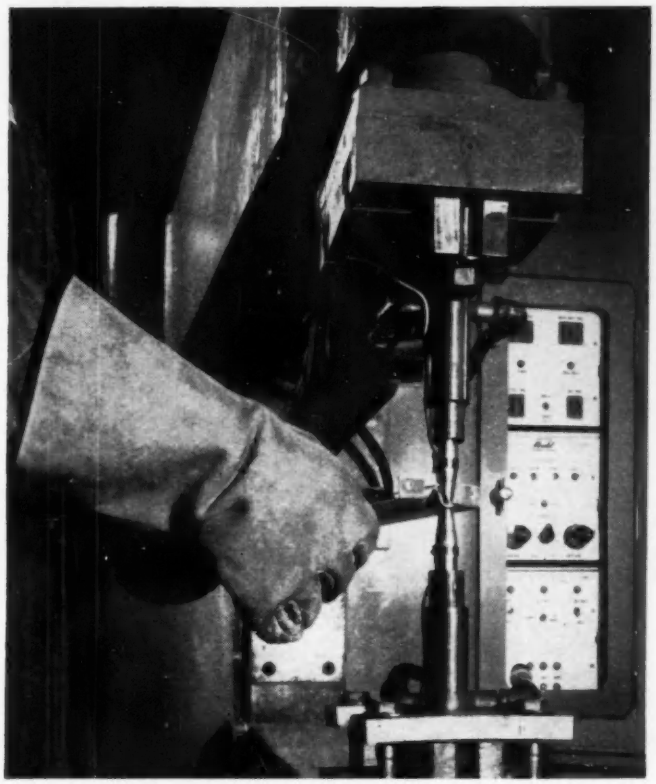


***Write for your copy...***
8-page folder describes these and other Lamb Electric motors.




Circle 180 on Inquiry Card for more data

# NEW FEEDBACK CONTROL
## makes every weld count

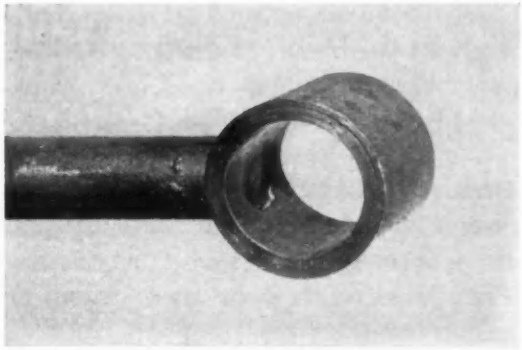


Information from electrodes is fed back to **Monautronic V-2** in background. Control has fully automatic sequencing with all provisions for single spot, roll spot and seam welding.

Now, with the new **Monautronic V-2** welding control, you can make consistently top-quality welds over long stretches of time, without stopping to test and inspect sample welds. The control senses variations in line voltage, electrode shape and tip force, material thickness and surface finish . . . and compensates for them immediately.

The **Monautronic V-2** automatically compares actual voltage across the weld with command voltage, and adjusts current accordingly to maintain voltage—and weld quality—at a constant level. If weld resistance is too high or too low to produce a good weld, the control locks out until the condition is corrected.

Although the **Monautronic V-2** embodies the latest advances in computer-type circuitry, it is quite simple to operate, and easier to maintain than most conventional controls. For complete details, contact THE BUDD COMPANY, Electronic Controls Section, Philadelphia 32, Pa., or one of our regional offices.



Here's a typical example of how **Monautronic** Welding Controls pay off. The part at the left is fastened by butt welding a piece of square cut mill bar stock to the side of a section of thick-walled tubular stock. With conventional control, 100% inspection at 8000 pounds pull revealed that approximately 5% of the assemblies ended up in the scrap pile. With **Monautronic** Controls, failures were cut to less than ¼ of 1%. The few times failures did occur, the **Monautronic** Control locked out automatically indicating a low quality weld. The piece at the left failed at 14,000 pounds. Notice that the nugget is almost as large in diameter as the bar stock.

2450 Hunting Park Ave.
Philadelphia 32, Pa.

1515 N. Harlem Ave.
Oak Park, Ill.

12141 Charlevoix Ave.
Detroit 15, Mich.

3050 East 11th St.
Los Angeles 23, Cal.

ELECTRONIC **Budd** CONTROLS

Circle 181 on Inquiry Card for more data

# From one source . . . everything

# Sunoco gives you . . . the source

"Sunoco" has a special meaning in the automotive industry. It stands for one of today's widest ranges of quality petroleum products. You can be sure Sunoco has petroleum products that meet the operating standards for your manufacturing requirements. In many instances Sunoco's standards exceed company specifications; in others the specifications were written around Sunoco products.

**What can Sunoco know-how do for you?** You can put Sunoco know-how to work in setting up a carefully planned program coordinating the petroleum products requirements for all departments. Sunoco will keep you informed on new products . . . bring you tested knowledge of their performance. Above all, Sunoco will help you select the right petroleum products . . . tell you the properties they must have and what they must be able to do.

**Sunoco trouble-shooting teams** Sunoco's field representatives and engineers move into action fast when customers call. They work with your own engineers and maintenance men to pin-point trouble spots . . . solve problems with the right petroleum products and their proper application. This is the kind of savvy that makes Sunoco a silent partner in the production schedules of your plant.

# an automotive plant needs

# . . . the savvy . . . the service

**Cut costs with "Single-Source-Sunoco"** It hardly pays to shop around for petroleum products when there's so much to be gained by concentrating on Sunoco. Sunoco can help you cut costs in storage and operating methods . . . advise on multi-purpose products . . . find ways to permit bulk buying. Single-source buying can simplify handling . . . lower your costs . . . and reduce paper work for shop and office personnel.

Give Sunoco . . . the source—the savvy—the service . . . a trial. Your nearby Sunoco representative needs only a phone call from you. Or write to us.

Industrial Products Department, Sun Oil Company, Phila., Pa. In Canada: Sun Oil Company Limited, Toronto and Montreal.

**See Automobile Reference Data for Sunoco specific automobile specifications for hydraulic, soluble cutting and grinding oils.**

Makers of famous Custom-Blended Blue Sunoco Gasolines.

SUNOCO

*Quality...*

THE BEST ECONOMY OF ALL



Circle 182 on Inquiry Card for more data

H&K PERFORATED MATERIALS

...the most complete selection of traditional and contemporary designs

...for all requirements, industrial and decorative

...facilities for perforating most metallic and non-metallic materials

Write for General Catalog 75 and/or Stock List Brochure

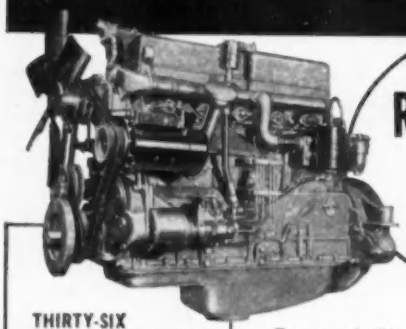
FIND NEAREST H&K AGENT in the 'Yellow Pages' Listed Under "Perforated Metals"

THE Harrington & King PERFORATING CO. INC.

Chicago Office and Warehouse • New York Office and Warehouse
5630 Fillmore Street, Chicago 44 106 Liberty Street, New York

Circle 183 on Inquiry Card for more data

CONTINENTAL RED SEAL POWER



FOR RUGGED STAMINA ECONOMY LONG LIFE

THIRTY-SIX TRANSPORTATION ENGINES ARE AVAILABLE

Thirty-one gasoline models, from 26 to 300 horsepower—five Diesel models, from 66 to 225 horsepower.

For nearly 60 years, Continental Red Seal transportation engines have found wide acceptance in the really tough jobs where extra stamina is a prime consideration—in heavy-duty highway trucks and tractors, both as original equipment and as replacements for other makes, in buses, taxicabs, door-to-door delivery vehicles, transport mixers and the like.

CONTINENTAL MOTORS Powerful as the Nation AMERICA'S STANDARD

Continental Motors Corporation

MUSKEGON • MICHIGAN

## MODERN TOOLS

(*Continued from page* 118)

The increasing need for lighter weapons prompted the accelerated development and application of higher strength materials. In turn, this has necessitated the fabrication of harder materials. Tooling innovations are demanded, when newer materials such as titanium are used, to prevent seizing and galling in machining and metallurgical processing.

We are utilizing titanium and uranium alloys in the Davy Crockett weapon system—one of the newest of our family of rocket-powered atomic battlefield systems. Tooling developed for hot-working these materials at Watertown includes expandable piercing heads of low-cost ordinary steels and collapsible extrusion punches which permit withdrawal when back extrusion techniques are required.

### Trepanning

The laboratory developed the trepanning machine method which has markedly reduced the time required to produce deep holes in metals. When working high-cost materials such as titanium, the ability to recover a core of material during machining may be worth more than the entire cost of trepanning. It also makes possible the economic fabrication of hollow cylinders of new experimental materials long before metallurgical processes by extrusion can normally be accomplished.

Watertown also reported to the ASTME the cold-swaging precision-forming technique. We have found that the amount of subsequent machining required can either be eliminated entirely or reduced substantially.

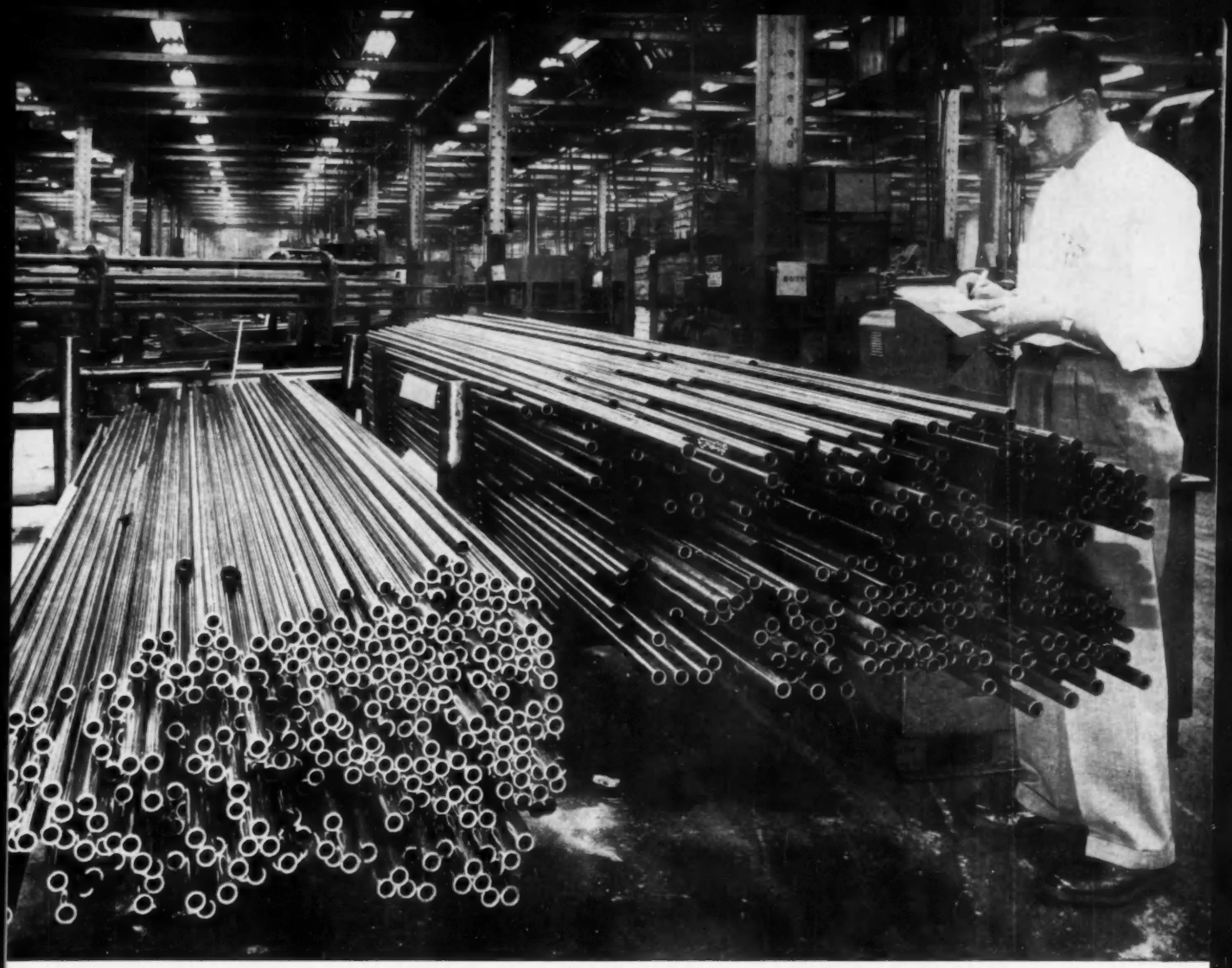
### Reliability

The Ordnance arsenals have long occupied a position of preeminence in the general field of inspection and quality control. In our business, reliability may spell the difference between life and death to out troops. It is imperative, therefore, that the materiel which reaches the field must meet all design specifications and safety standards.

(*Turn to page* 126, *please*)



Circle 184 on Inquiry Card for more data



# They make piston pins faster for less money with USS National Seamless Mechanical Tubing

It takes plenty of machine time to drill and machine the holes in 6,500,000 piston pins a year. That's what one major auto company* had to do . . . *until* the switch to USS National Seamless Steel Mechanical Tubing. By eliminating the need to drill holes in the bar stock, the company got rid of six chuckers formerly used for drilling, saved time as well as the power they consumed and the space they occupied. ☐ USS National Seamless Tubing has dimensional accuracy. It has no hard or soft spots. It's made by people who know more about seamless tubing than any other manufacturer in the world. You can choose from a complete range of sizes and steel grades. Find out how USS National Seamless Mechanical Tubing can be most effectively applied to your designs. Contact your nearest National Tube Distributor soon.

*USS and National are registered trademarks*

**Name supplied on request*

**National Tube Division of United States Steel**

Columbia-Geneva Steel Division, San Francisco, Pacific Coast Distributors
United States Steel Supply Division
United States Steel Export Company, New York

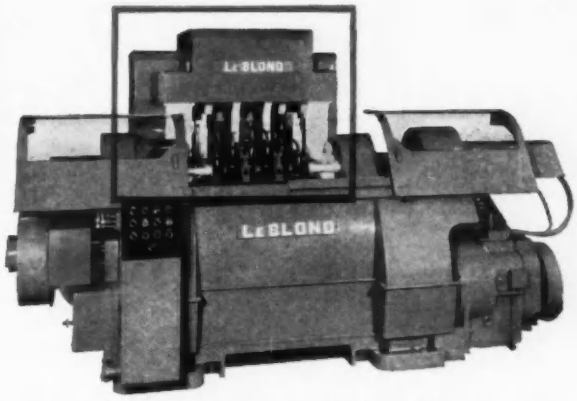
This mark tells you a product is made of modern, dependable Steel.

Watch United States Steel's special Christmas show, **The Coming of Christ,** in Color on NBC-TV, Wednesday, December 21, 8:30 P.M., E.S.T.

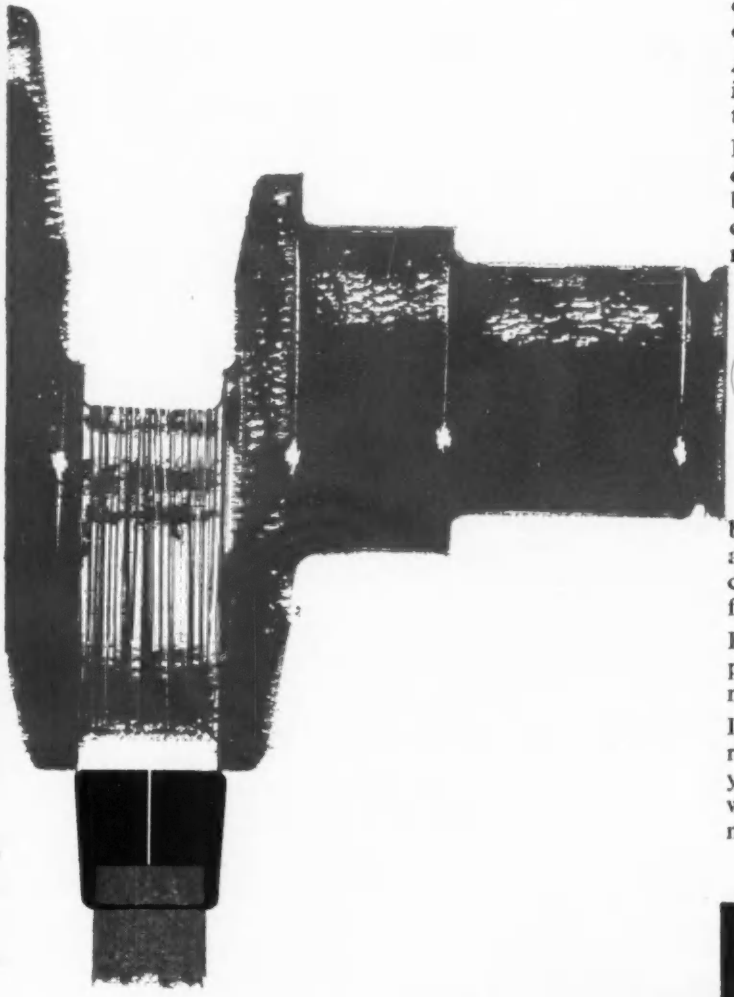
LeBlond announces **PACKAGE**

The R.K. LeBlond Machine Tool Company, Cincinnati 8,

# TOOLING



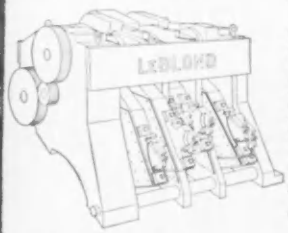

*A new concept in crankshaft turning*



Automatic machining plus quick and easy tooling change-over—this is the unusual combination of advantages of our new 6PC Pin Turning Lathe.

All tooling, slides and master crankshafts are contained in a package unit which can be removed and a new tooling package installed in a few hours.

By this "package tooling" concept we eliminate the time delay heretofore required to send crankshaft machines back to the manufacturer for rebuilding. In addition, capital outlay is substantially less when you purchase a new tooling package and install it in your plant.




These packages are interchangeable so that any combination can be used to suit your needs. For example, you could have one base and three different tooling units. Additional packages or bases can be ordered at any time.

The LeBlond 6PC turns pin bearings, faces adjacent counterweight lobes, or both in a single machining cycle. It will handle forged or cast crankshafts with 2, 3, 4, 6, or 8 pins. It will accept cranks from 12″ to 41″ long with bearing diameters up to 5″.

Production rates will range from 10 to 40 per hour depending upon material, number of pins and webs to be machined, length of web cut, etc.

If flexibility is more important than maximum production rate in your shop, we would like to discuss the 6PC with you. Our latest catalog describes this new machine as well as our high production crankshaft lathes. Ask your nearby representative or write.

Ohio *World's largest builder of crankshaft lathes*

LeBLOND *of Cincinnati*



Circle 185 on Inquiry Card for more data

## MODERN TOOLS

(*Continued from page* 122)

At Picatinny Arsenal, radioisotopes are utilized where inspection by more conventional means could not be accomplished. To check the presence of a safety device installed in a fuzehead, the device is made radioactive. A Geiger counter can then detect its presence. If it fails to do so, the head is mechanically rejected on the assembly line. The inspection unit can handle 2000 items per hour.

I believe these reports on our work will indicate that we are trying to keep the bank of technological knowledge full and exploiting new knowledge in the improvement of our products.

### New Weapons, Vehicles

And now, having all too briefly given you a picture of the requirements we must meet, some of the things we are doing to meet them, and the help we hopefully look for from your industry, I will try to indicate the direction in which we are heading.

We are building new tanks that will be faster, harder-hitting, and will better protect their crews. We are building improved personnel carriers that provide greater range and more protection. They represent considerable improvements in size, weight, engine performance and fuel economy. We are looking ahead to a later generation of tanks and personnel carriers that will be air transportable and that will possess amphibian capability—but, a word of caution, these are future concepts.

We have in being, or well on the way, a formidable array of weapons from the new M14 rifle using the NATO round, to the PERSHING solid propellant ballistic missile and the fabulous NIKE ZEUS —the Army's answer to the ICBM threat now in research and development. We believe that we have firepower at hand to wage nonnuclear war, and our rockets, guided and ballistic missiles will give us an atomic capability across a broad spectrum of range and yield.

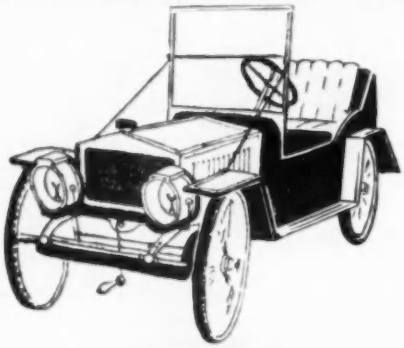
### Fuel Cells

In cooperation with the Corps of Engineers, we are exploring the adaption of fuel cells to our vehicles. This would be a breakthrough of tremendous significance if successful, because a vehicle so equipped would operate without the usual noise and excessive heat, and would consequently be much harder to detect in combat. What is more, the fuel efficiency—60 to 80 per cent compared to 25 to 30 per cent with the gasoline engine—would reduce the logistic load appreciably. Maintenance would also be reduced because there are no pistons, no crankshaft or transmission. All that is required is a nest of cells producing electrical energy by direct chemical reaction.

In the communications area, the Signal Corps has pioneered transistorized circuitry for military applications. Weight and power requirements have been reduced and so has the space factor. Reliability has been vastly increased. Signal has now achieved a packing density

(*Turn to page* 132, *please*)


FOR A FINISH THAT'LL LAST...



*use*

KELITE KEYKOTE® 25

**ferrophosphomolybdate coating**

The enduring beauty of the finish begins with the paint preparation . . .

Keykote 25 solutions operate in a low pH range (2.7 to 4.0) in one to six stage spray washers, immersion, or steam phosphatizing methods. Keykote 25 is a powdered phosphate composition and not an iron phosphate although it competes in that class. It embodies iron for ductility, zinc for galvanic protection, manganese for hardness, and ferromolybdate for passivity. The result is superior paint bonding and corrosion resistance at low cost.

**For further information or Product Bulletin 12A, contact the nearest Kelite Office listed below.**

U. S. Patent Nos. 2,557,509, 2,826,517 and 2,885,312. Others in process. Also patented in Canada, Australia and Great Britain.

KELITE CORPORATION

• Los Angeles 12 • Chicago 45 • Berkeley Heights, N. J.

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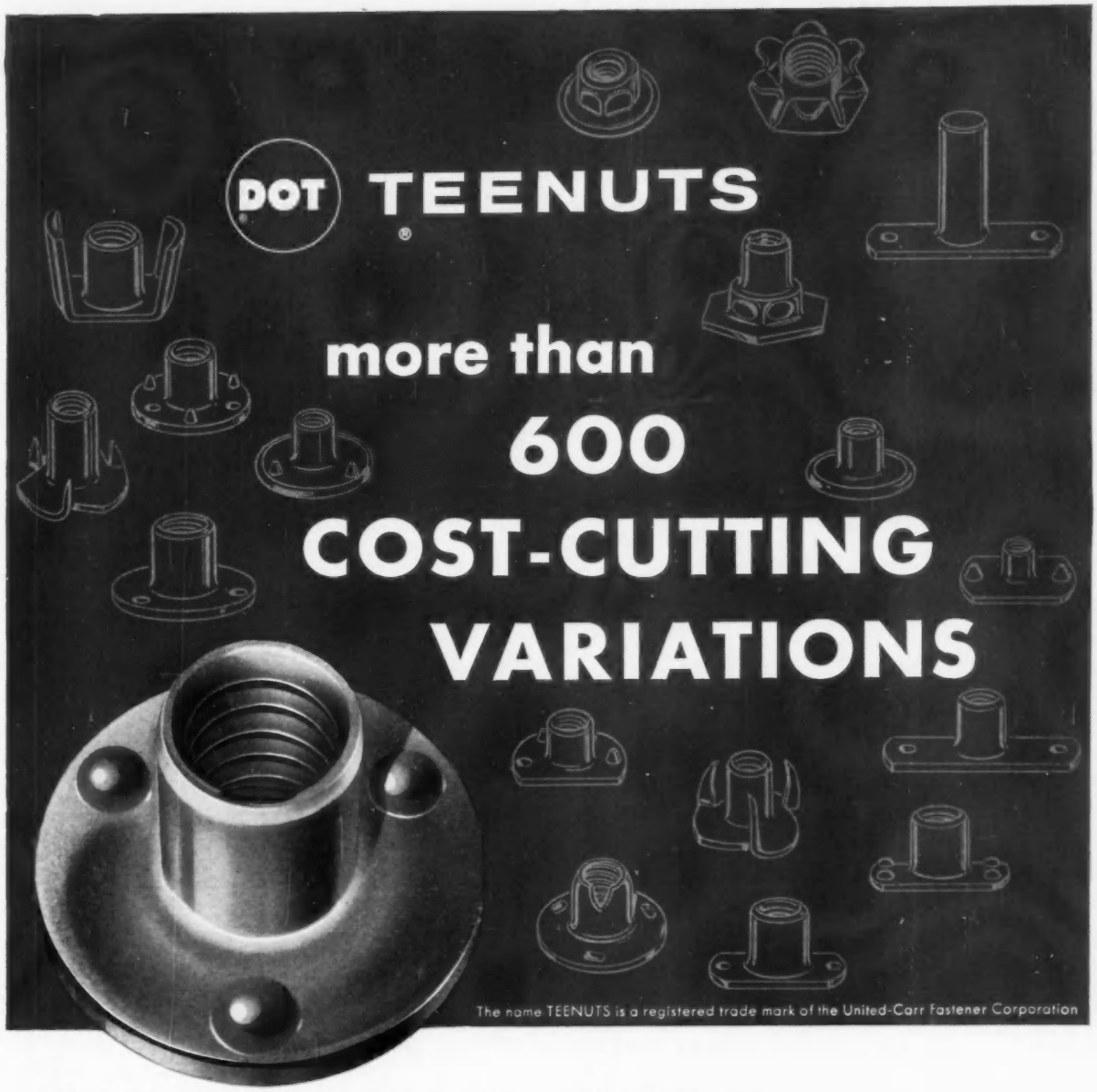



Since the first TEENUT was developed by Carr Fastener in 1927, more than 600 different modifications of this extremely versatile device have been designed and manufactured in true, mass-production quantities.

By combining nut and washer in one solid unit, the DOT TEENUT offers exceptional strength and security and eliminates the need for tapping. Its flanged base can be formed with welding bosses for attachment to sheet or solid metal structures . . . with prongs for wood . . . or with any number of different special bases for particular applications. DOT TEENUTS can be made in heat and corrosion-resistant materials and they can be provided with moisture-seals and vibration-proof, self-locking barrels.

Once mounted, the DOT TEENUT stays put and can't be lost or mislaid . . . an advantage at any time and a necessity where blind fastening is required.

Wide experience in the proper application of DOT TEENUTS and a multitude of other special-purpose fasteners enables your DOT field representative to provide prompt and effective solutions to a tremendous variety of fastening problems. Where special design work is needed, he can bring you the services of a design-engineering group unequalled in its field.

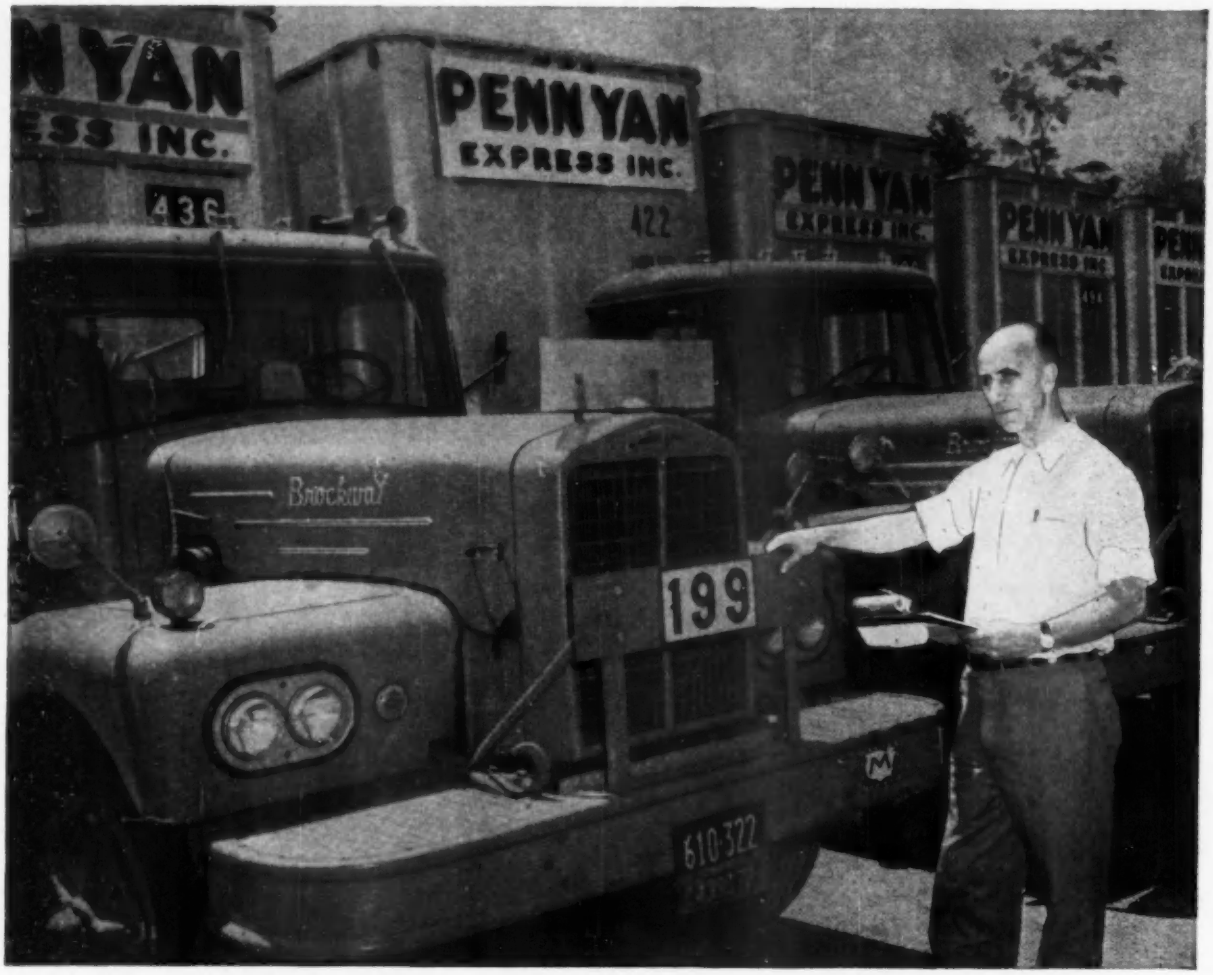
The DOT TEENUT catalog is an invaluable reference . . . yours on request.

MAKERS OF DOT FASTENERS

**CARR FASTENER COMPANY**

Division of UNITED-CARR Fastener Corp., Cambridge 42, Mass.

*Offices in: Atlanta, Boston, Chicago, Cleveland, Dallas, Detroit, Kalamazoo, Los Angeles, Louisville, New York, Philadelphia, San Francisco, Seattle, Syracuse*




# "LIPE CLUTCHES

## *play an important part in keeping this fleet rolling*"

*Philo Edsall, Supervisor of Maintenance for Penn Yan Express, Penn Yan, New York, says:*

"I recently took time out from regular duties to review our maintenance records in order to determine which replacement parts were giving us the best performance and service.

"I particularly noted the outstanding endurance of Lipe Rollway Clutches and I thought you would be interested in knowing of our experience.

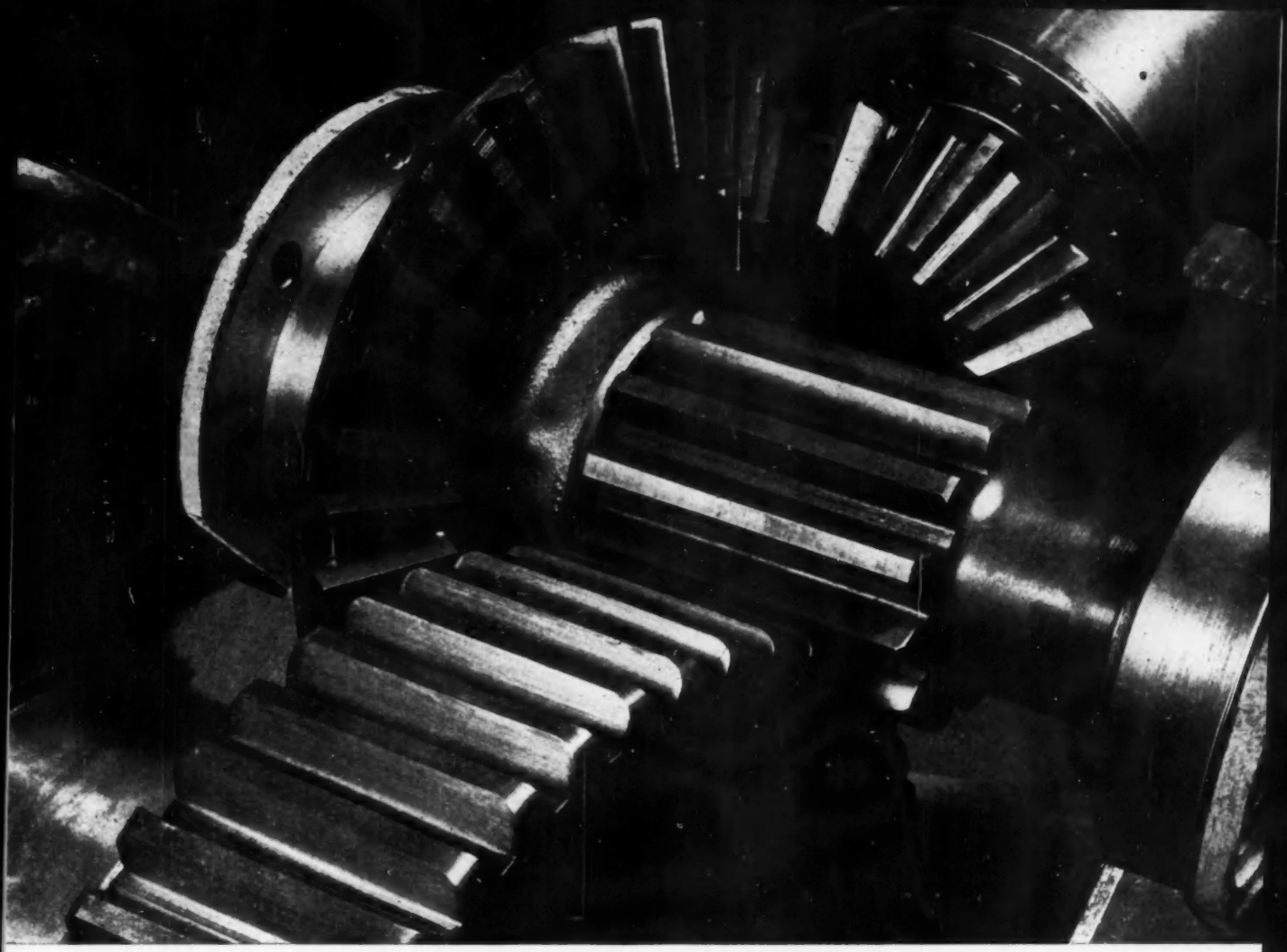
"Penn Yan Express, Inc., operates a fleet of 60 heavy duty tractors, hauling maximum pay loads over a five state area with all kinds of highways and weather conditions, traveling in excess of three million miles annually. Lipe clutches have played a tremendously important part in keeping this fleet rolling. Our records indicate Lipe Clutch performance to be in excess of 175,000 to 200,000 miles."

The experience of this fleet is another illustration of why . . . ***the trend is to* LIPE!**

*There is a Lipe Clutch to meet requirements of vehicles 18,000 lbs. G.V.W. and up; for torque capacities from 200 to 3000 ft. lbs. For application assistance and specific data, contact the Company direct.

LIPE ROLLWAY CORPORATION
SYRACUSE 1, N. Y.

Circle 188 on Inquiry Card for more data



These gears drive the cutting head of a Lee-Norse continuous coal miner. They have superb toughness to resist impact and wear. They're made of AISI 4820, 4320, and 4817 alloy steels.

# These teeth are not for chewing

Gear teeth aren't supposed to chew anything (especially each other) because it's so very *expensive*. A broken ten-dollar gear can cost a thousand dollars in down time—so it pays to use the very best alloy steels for gears and other highly stressed parts.

When we make USS Alloy Gear Steels, every production step has one purpose: to prevent failure in actual service. These premium steels forge and machine without distortion. They are dimensionally stable, and they come in the widest possible range of mechanical properties. Be sure to specify USS Alloy Gear Steels: Carburizing steels for toughness, shock and wear resistance; thorough-hardening steels for heavy loads at slow to medium speeds; cyaniding and nitriding steels for wear.

For information or metallurgical assistance, call our nearest sales office or United States Steel, 525 William Penn Place, Pittsburgh 30, Pa.

*USS is a registered trademark*

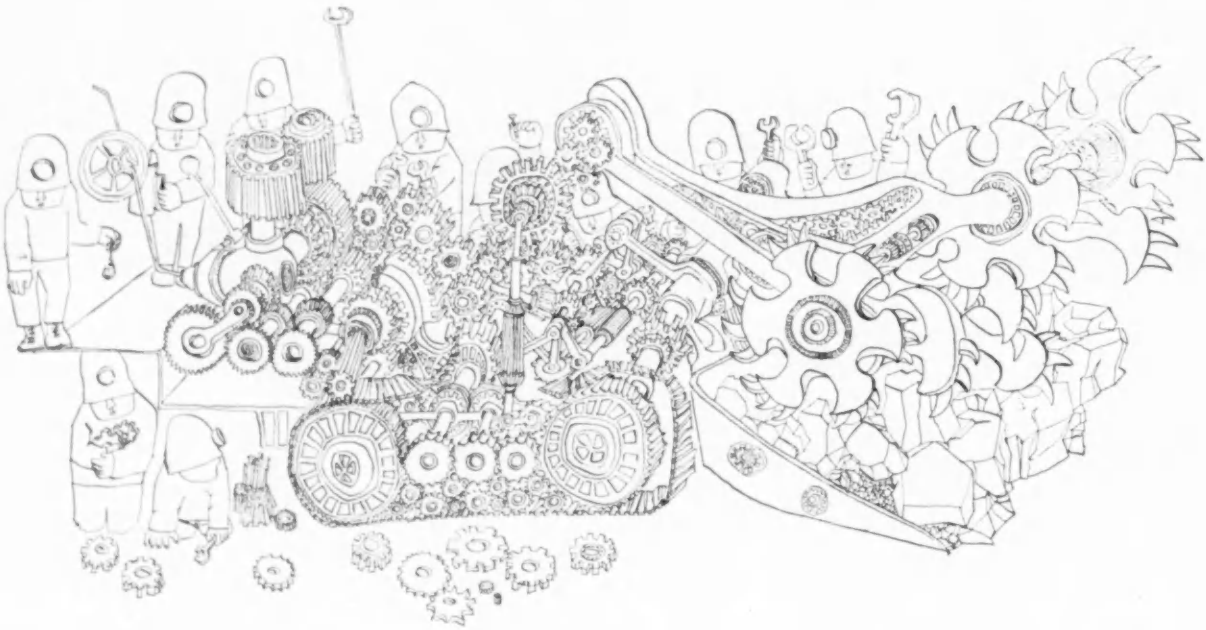
Watch United States Steel's special Christmas show, **The Coming of Christ,** in Color on NBC-TV, Wednesday, December 21, 8:30 P.M., E.S.T.

United States Steel Corporation—Pittsburgh
Columbia-Geneva Steel—San Francisco
Tennessee Coal & Iron—Fairfield, Alabama
United States Steel Supply—Steel Service Centers
United States Steel Export Company
**United States Steel**

USS

This mark tells you a product is made of modern, dependable Steel.

# the digger's dilapidation



# (or, How not to be a victim of tired gears)

She was a beauty when they brought her in. Shiny paint. Ferocious teeth that could chew out a whopping 5 tons of coal per minute. A drive that looked like it could rout out a vein from here to Medicine Hat, Montana, and back. At least that's the way it *looked*. Then one day fatigue set in. The old girl had tired gears. There were sounds like skis falling down stairs, a crack of doom and, wham, she stopped right in the middle of a bite. Busted gear.

Gear failure costs money, especially in terms of downtime and lost production. That's why it is essential to use *quality* alloy steel for gears, bearings, shafts and other highly stressed parts. Only the best is good enough when any failure is costly. The care and precision in making USS Alloy Gear Steels are for one purpose: prevention of failure. USS Alloy Gear Steels deliver dimensional stability. They come in a wide range of mechanical properties and processing capabilities.

The Lee-Norse Company's continuous coal miner will never be a victim of tired gears. Alloy steels such as 3310, 4815, 4820, 4320, 4340 and 8620 give its gears, pinions and shafts superb toughness and resistance to impact and wear. These cutter head drive gears are made of 4820, 4320 and 4817 alloy steels.

Be sure to specify USS Alloy Gear Steels for *any* of your gear requirements. Carburizing steels for toughness, shock and wear resistance; through-hardening steels for heavy loads at slow and medium speeds; cyaniding and nitriding steels for wear.

For more information and prompt metallurgical assistance, call our nearest sales office or United States Steel, 525 William Penn Place, Pittsburgh 30, Pa.

*USS is a registered trademark*

Watch United States Steel's special Christmas show, **The Coming of Christ,** in Color on NBC-TV, Wednesday, December 21, 8:30 P.M., E.S.T.

This mark tells you a product is made of modern, dependable Steel.

**United States Steel Corporation—Pittsburgh**
**Columbia-Geneva Steel—San Francisco**
**Tennessee Coal & Iron—Fairfield, Alabama**
**United States Steel Supply—Steel Service Centers**
**United States Steel Export Company**

**United States Steel**

USS

## MODERN TOOLS

(*Continued from page* 126)

of 2000 electronic components per cubic inch—which should give you an idea of what is coming in commercial applications.

We are exploring the amazing characteristics of the new metals that can withstand the extremes of temperature and pressures involved in the exploitation of scientific discovery. They promise eventually to make possible alloys that will be stronger, lighter and more heat-resistant than any material now available.

With the help of industry, and especially of the machine tool trade, we will keep the Army equipped with the best firepower that the creative intelligence and the unique skills of our dedicated people can devise.

*The foregoing is abstract of an address by General Hinrichs at the 36th Annual Meeting of the American Machine Tool Distributors' Association, held in Chicago on September 3-4, 1960.* ■

## Clevite Profits Soar

Clevite Corp. has reported excellent sales and earnings for the first nine months of 1960. Per-share earnings of $2.65 were more than in any full year in the last 10, excepting 1959. Sales and other revenues totaled $73,097,662.

Third quarter earnings were 60 cents a share, on sales and revenues of $21,687,997, compared with 73 cents and sales and revenues of $19,651,275 a year ago.

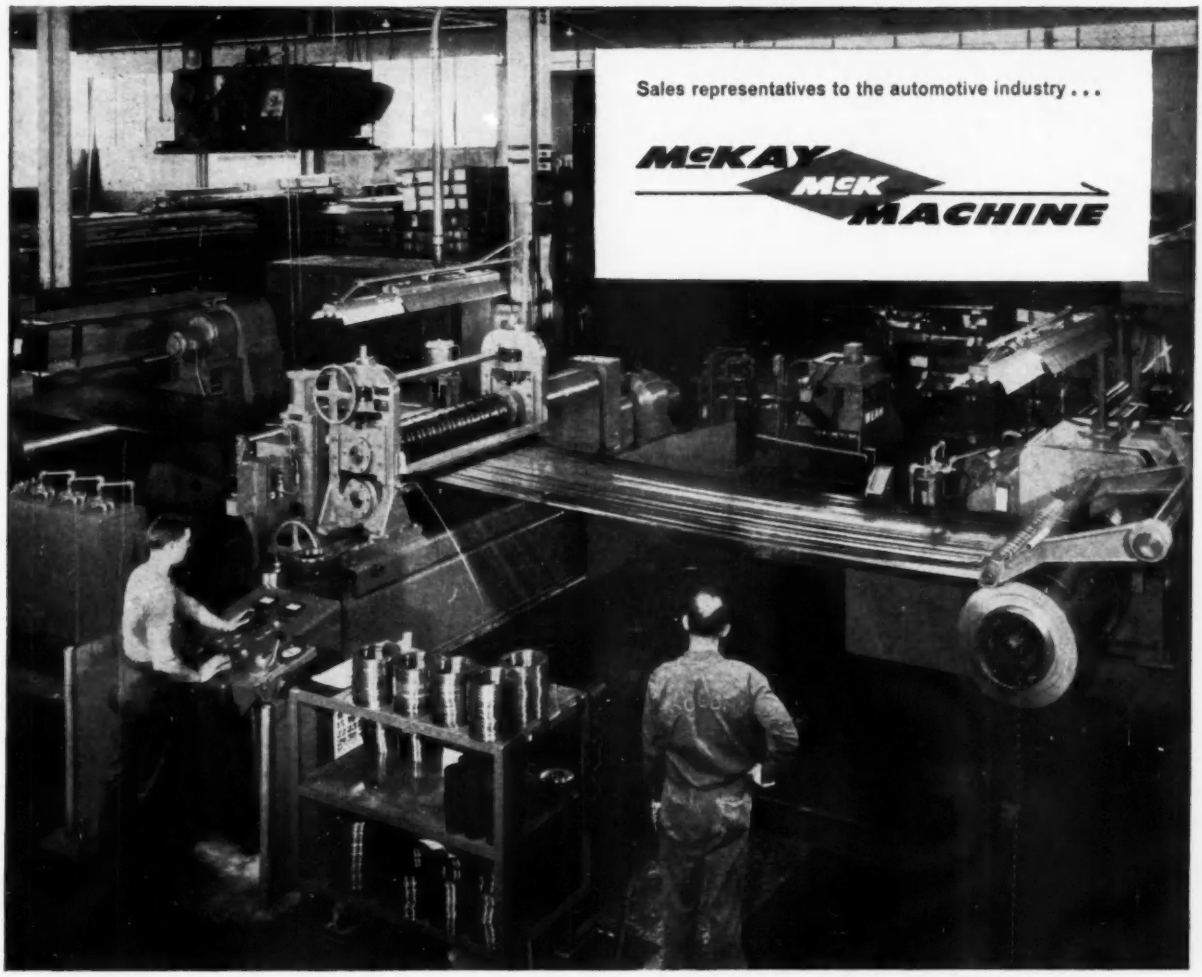
James L. Myers, chairman, and William G. Laffer, president, said Clevite had established leadership in the field of piezoelectricity both in the U. S. and abroad. The Spark Pump, a piezoelectric ignition source for small gasoline engines, was cited as one example of new product development.

## Grumman Contract

The Navy has awarded Grumman Aircraft Engineering Corp. a $35.7 million contract to produce additional S2F-3 Trackers. The Tracker is an anti-submarine aircraft which performs both "hunter" and "killer" missions.



Circle 189 on Inquiry Card for more data




Wean 52" tension-type slitting line

# Wean Slitting Lines cut costs in switch to coil processing

Automotive manufacturers were quick to realize the economical advantages of coil processing. By purchasing their flat-rolled steel and non-ferrous metals in standard coil sizes, these firms have been able to significantly reduce both raw material and internal costs.

They have also reduced scrap loss and eliminated *sheet obsolescence* resulting from model changes or new production requirements.

Whether subsequent production operations call for sheet stock, side-trimmed coils or narrow coils, the first step in materials flow is the slitting line. This key installation must be precision-engineered and rugged to keep materials supply accurate and uninterrupted. Wean Equipment Corporation has designed and built more than 180 slitting lines to answer such requirements.

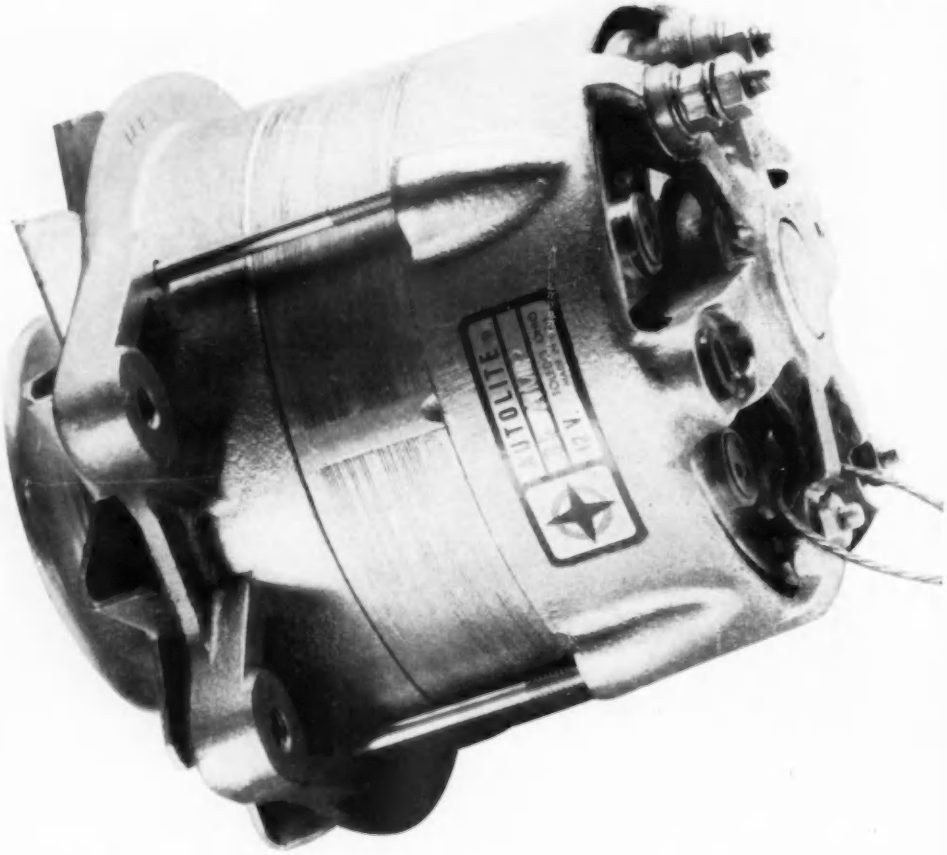
If you are contemplating expansion or modernization of your coil processing facilities, the experience and specialization of Wean Equipment Corporation can help you in your planning. Please direct your inquiry to our automotive sales representatives, The McKay Machine Company, Box 180, Youngstown 1, Ohio.

**WEAN EQUIPMENT CORPORATION**
**22800 Lakeland Boulevard Cleveland 17, Ohio**

**WEAN**



Circle 190 on Inquiry Card for more data


AUTOLITE

# MORE AMPS PER INCH!

Pound for pound and inch for inch new Autolite® alternators put more power into a smaller space. For example. The model pictured above. Packs an output of 10 amps at idle, to 35 amps or more into a compact handful that measures just 5" in diameter. Weight: 9¾ pounds. There's a full line just like it for standard, heavy, or extra-heavy duty applications. They have been thoroughly tested, naturally. They are in full production now. Ready for your application. For complete information and detail specifications contact:

**AUTOLITE ALTERNATORS**

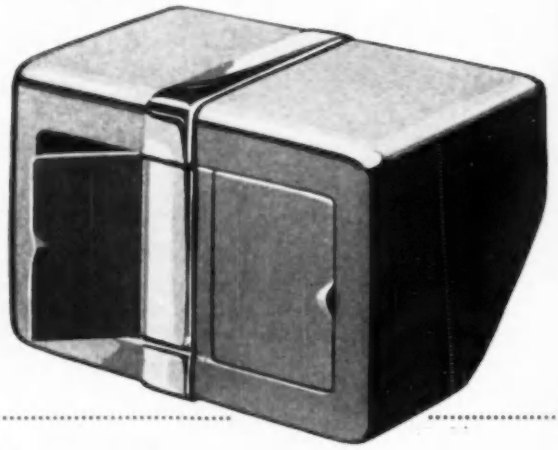
ELECTRICAL PRODUCTS DIVISION, TOLEDO 1, OHIO




**Circle 191 on Inquiry Card for more data**

# EVANS HEATERS ARE RIGHT FOR TRUCKS BECAUSE

# THEY'RE BUILT FOR TRUCKS!



**Write:** *EVANS PRODUCTS COMPANY*
*Dept P-12, Plymouth, Michigan*

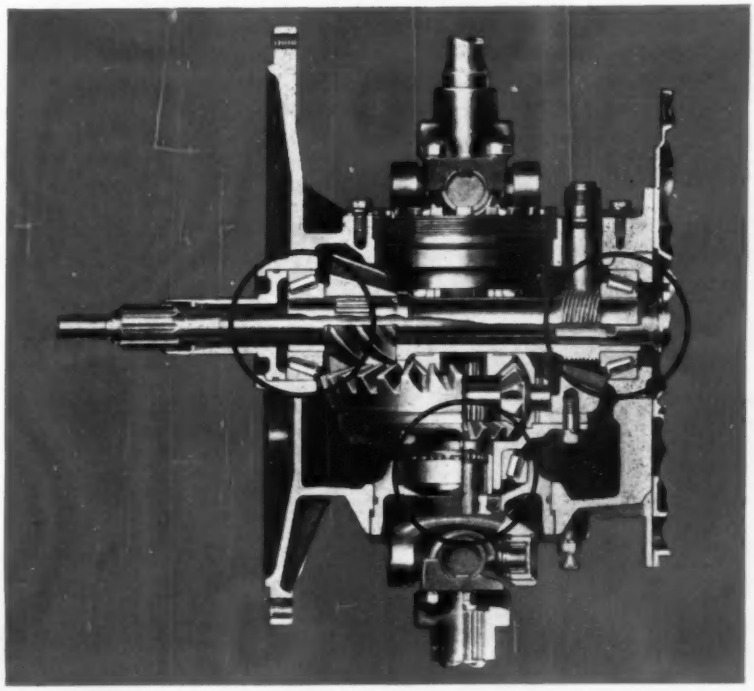
**REGIONAL REPRESENTATIVES:** Chicago, R. A. Lennox
Detroit, Chas. F. Murray Sales Co. • Allentown, Pa., P. R. Weidner

**EVANS PRODUCTS COMPANY • PLYMOUTH, MICHIGAN**

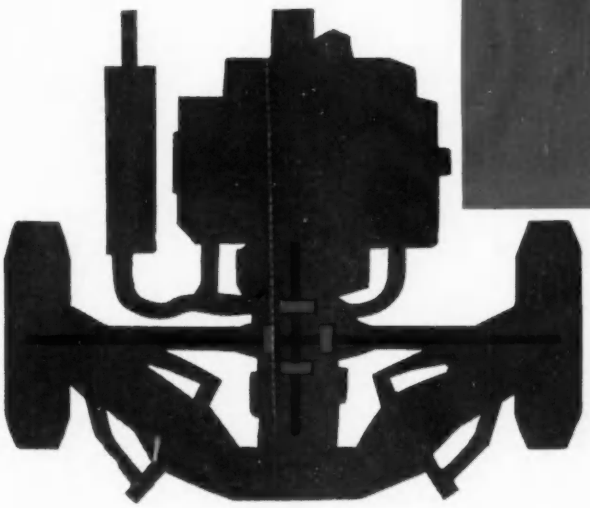


Circle 192 on Inquiry Card for more data

LOOK AT THE SPACE YOU SAVE . . . WHEN YOUR "SPECS" READ **HYATT**



In the Corvair's compact design, the pair of Hyatt taper bearings supports the pinion gear. These bearings, along with another pair of Hyatts which support the differential carrier and ring gear, assure accurate gear contact.



# NEW TRANSAXLE TURNS POWER AT RIGHT ANGLES ON HYATT TAPER BEARINGS

Chevrolet's outstanding transaxle sandwiches the final drive between the engine and transmission. Thus, power has only inches to go before it takes a tight right-angle turn on Hyatt taper bearings and flows to the wheels of the Corvair.

One pair of Hyatts supports the opposite ends of the pinion gear shaft. Another pair, at right angles, supports the differential housing. With Hyatts all the way through the final drive, Chevrolet insures accurate gear contact for smooth, efficient and dependable power transmission.

Take a tip from a leader in design and specify rugged, dependable Hyatt taper bearings. Hyatt Bearing Division, General Motors Corporation, Harrison, N. J.

**HYATT** *HY-ROLL BEARINGS*

**FOR CARS AND TRUCKS**

IN ROLLER BEARINGS HYATT IS THE WORD FOR GM GENERAL MOTORS RELIABILITY



Circle 193 on Inquiry Card for more data

## AMC Expansion

(*Continued from page 47*)

the 600,000 capacity now planned for 1961, any further expansion would be in Wisconsin, he said. AMC now has the advantage of a low break-even point that shows up in its earnings statements.

Rambler, of course, has been a salvation for American Motors. Astute planning, or lucky timing, by both the late George Mason and now Mr. Romney, have allowed American Motors to anticipate market changes. As a result, the Rambler got a head start, and set the pace, in the expansion of the smaller car market.

### Alert for Changes

If there are any additional changes in the wind for the domestic market pattern, AMC intends to be on top of the situation. Mr. Chapin said the trend toward smaller packages has eliminated useless overhang and brought the U. S. cars about as small as they can get in wheelbase and overall length, at least "for the present and the immediately foreseeable future."

"But if a market for a four-passenger car develops," he added, "a car of that size can be built." He said there isn't anyone in the industry who is "not working on a car more acceptable."

Mr. Chapin, who was born into the automobile industry, and has seen its varying patterns through the years, does not believe there is a market for a smaller American-made passenger car now, or in the next couple of years. But, he admits, the market may develop.

He should know. He watched the market for Rambler-size cars develop when skeptics said it would never happen.

### Both Sides of Coin

But Mr. Chapin has seen both sides of the coin. The son of one of the founders of the Hudson Motor Car Co., he joined Hudson in 1938 following his graduation from Yale. He worked in experimental engineering, later moving into production planning, accounting, car distribution, sales administration and manufacturing. He served as a district sales manager, later a regional manager, assistant zone manager and special representative. In 1952 he was named assistant sales manager.

Mr. Chapin came with the merger of Hudson Motor Car Co. and Nash-Kelvinator Corp. He became treasurer of American Motors in 1955, and was elected a vice president in January, 1956. Later that year he was named executive vice president and general manager of the Automotive Div.

In the last two decades Mr. Chapin has seen the losing struggle of the Hudson, the fresh optimism of the young American Motors, the eventual passing of both Hudson and Nash, and lately the surging rebirth of the Rambler and its climb to its present lofty position. As No. 2 man at American Motors, with the broader responsibilities handed him earlier this month, Mr. Chapin will figure more prominently in any future growth of the company. ■


# Ford and Follmer rely on AIR-PUSH Windshield Wiper Dependability

Follmer Trucking Company, Danville, Pa., promises to deliver anywhere in its 28,000 sq. mile territory within 24 hours. To profitably keep this promise of dependable deliveries Follmer relies on a fleet of nearly 150 Ford F-600 and F-800 Trucks. They rely, too, on the performance of Sprague Air-Push Windshield Wiping Equipment to insure better driver vision in bad weather—help get the pay-loads through safely. Air-Push Wipers are standard on Ford heavy duty, conventional and tilt cab series.

Circle 194 on Inquiry Card for more data

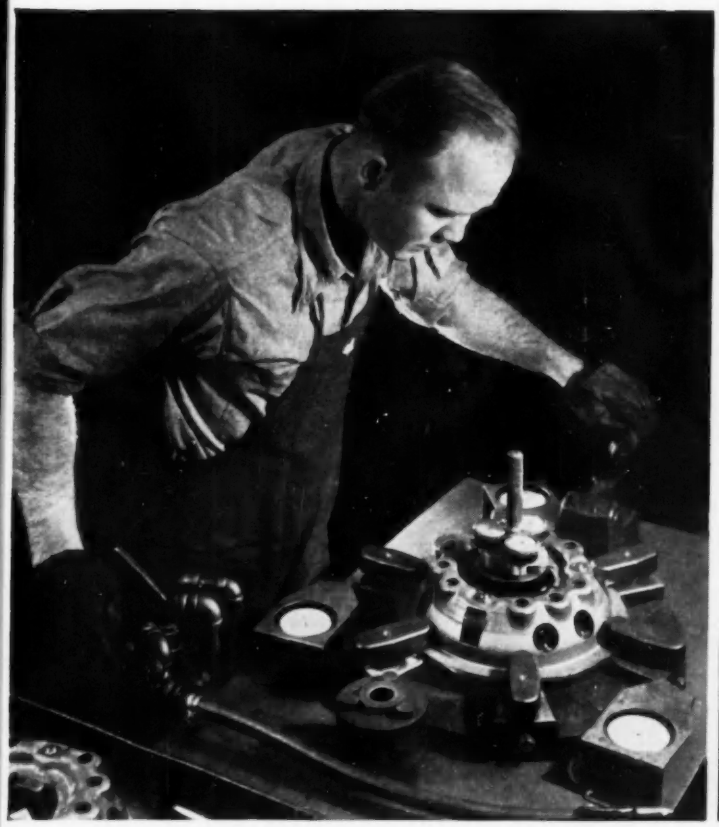
**Quality Control is a BORG & BECK tradition that means**

# BETTER CLUTCHES

At Borg & Beck, quality control is not just a phrase to which we pay lip service. It is a tradition born of the long-standing Borg & Beck policy of building up to a standard —not down to a price.

In the photograph at the left, for example, release levers are being checked on special equipment to make sure they are parallel with the pressure plate. As shown at the right, every Borg & Beck clutch plate is carefully tested for correct deflection to assure positive release. And every driven plate and cover assembly is dynamically balanced for maximum smoothness of operation.

These exacting tests are typical of the extra care that goes into every step in the making of Borg & Beck clutches. They are your assurance of top quality, top performance, top value. And that means: BETTER CLUTCHES.



BORG & BECK CLUTCH THE STANDARD
Reg. U.S. Pat. Off.

BORG & BECK B-W DIVISION
BORG-WARNER

# BORG & BECK®

THE AUTOMOTIVE STANDARD FOR MORE THAN 40 YEARS

BORG & BECK DIVISION, BORG-WARNER CORPORATION, CHICAGO 38, ILLINOIS

**Export Sales:** Borg-Warner International, 36 S. Wabash, Chicago 3

Circle 195 on Inquiry Card for more data

# Guarantee your extended warranty with *the thread that takes care of itself!*

**HELI-COIL® Wire Screw Thread Inserts —**

- **provide permanent threads in all metals — even in aluminum and magnesium.**
- **strengthen threaded assemblies in all components used in original equipment . . . protect all threads from service over-torquing.**
- **do away with weak, worn or damaged threads.**
- **eliminate warranty period expense due to thread failure.**

As original equipment, ***Heli-Coil*** Wire Screw Thread Inserts use standard boss dimensions . . . *can even be phased in as a running change on the line without redesigning.* There's a ***Heli-Coil*** Insert for every application — the ***Heli-Coil*** Standard Insert, or, the ***Heli-Coil*** Screw-Lock Insert which also holds the screw fast under shock and vibration; eliminates lock nuts, lock washers, lock wiring. Available in a full range of sizes — also 14 and 18 MM for spark plug ports, *as well as taper pipe threads.*

**Protect your warranty with the thread that takes care of itself — install *Heli-Coil* Inserts.**

***Heli-Coil*** **Wire Screw** Thread Inserts are original equipment on many leading cars; are recommended by FORD, GENERAL MOTORS, CHRYSLER, AMERICAN MOTORS, and other U.S. and foreign manufacturers for thread repairs in iron, steel, aluminum, and magnesium components.

*For Design Manual, Case Histories and Free Samples — Write . . .*

**HELI-COIL CORPORATION**
3212 Shelter Rock Lane, Danbury, Connecticut

In Canada: ARMSTRONG BEVERLEY ENGINEERING LTD.
6975 Jeanne Mance St., Montreal 15, Que.

3110



Circle 196 on Inquiry Card for more data

# AUTOMOTIVE INDUSTRIES

A CHILTON PUBLICATION

PASSENGER CARS • TRUCKS • BUSES • AIRCRAFT • TRACTORS • ENGINES • BODIES • TRAILERS • ROAD MACHINERY • FARM MACHINERY • PARTS AND COMPONENTS • ACCESSORIES

# THE 1961 PRODUCTS GUIDE

THE PRODUCTION IMPROVEMENT PLANNING SERVICE AND BUYERS' DIRECTORY FOR DESIGN AND PRODUCTION EXECUTIVES

- PARTS and COMPONENTS
- PRODUCTION and PLANT EQUIPMENT
- MATERIALS and SUPPLIES

# AUTOMOTIVE INDUSTRIES

# PRODUCTS GUIDE SECTION

***Arranged Alphabetically by Products***

Products are listed alphabetically by the basic noun first, i.e., steel castings are listed under "Castings, Steel"; forging presses are found under "Presses, Forging," etc.

Cross indexing for general type of products is also provided for quick location of specific items, i.e., "UPHOLSTERY MATERIAL AND SUPPLIES—See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery); also Fabric, Plastic; also Fasteners, etc."

Companies which have advertised in AUTOMOTIVE INDUSTRIES during 1960 are listed in bold face type in the Products Guide Section. Refer to these ads for more detailed product information.

When requests for product information are made to manufacturers listed herein, kindly mention the A. I. Products Guide as the listing source.

## ABSORBENTS, Oil and Grease (Floor)

Davis-Howland Oil Co 333 South Ave Rochester 20 N Y "DSL"
Diversey Corp 212 W Monroe St Chicago Ill "Diversey Pickup"
Eagle-Picher Co American Bldg Central Parkway Cincinnati 1 Ohio "Floor-Dry"
Flor-Dry Co 1821 University Ave St Paul 4 Minn "Cal-Flor-Dry" "Flor-Dry"
Floridin Co PO Box 989 Tallahasee Fla "Floreo"
Oakite Products Inc 19 Rector St N Y N Y
Oil-Dri Corp of America 520 N Michigan Ave Chicago Ill "Oil-Dri All Purpose"
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa "Penn Drake Kwix-orb"
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill "Dri-Sorb"
Speedi-Dri Div Minerals & Chemicals Philipp Corp Essex Turnpike Menlo Park N J "Sol-Speedi-Dri" "Auto-Dri"
Waverly Petroleum Products Co 3018 Market St Philadelphia 4 Pa "Dri-Zit" "Waverly Hi-Dri"
Wyandotte Chemicals Corp J B Ford Div Wyandotte Mich "Wyandotte Zorball"

**ABRASIVE TESTING INSTRUMENTS—See Instruments, Abrasive Testing**

**ABRASIVES—See Belts or Bands, Endless Abrasive (Industrial); Cloth, Abrasive; Discs, Abrasive Grinding; Grit; Hones; Paper, Abrasive; also Wheels, Grinding**

**ACCELERATOR PEDALS—See Pedals, Accelerator**

## ACCELEROMETERS

Bennett-Feragen 1408 Jerome St Niles Mich
Maxson Instruments Div W L Maxson Corp 475 Tenth Ave N Y 18 N Y

**ACETYLENE GAS—See Gas, Acetylene (in Cylinders and Tanks)**

## ACIDS, Pickling

Calcine Chemical Co P O Box 61 H C Station Jersey City N J
du Pont de Nemours & Co E I Industrial & Biochemicals Dept Wilmington 98 Del
Enthone Inc 442 Elm St New Haven 11 Conn "Enth-Acid"
Harshaw Chemical Co 1945 E 97th St Cleveland 6 Ohio
Oakite Products Inc 19 Rector St N Y N Y
Waverly Petroleum Products Co 1724 Chestnut St Philadelphia 3 Pa "Troxide"

**ACOUSTIC MATERIAL—See Insulation, Felt, Hair, Paper, etc.; also Pads, Insulation (Heat, Cold & Sound)**

## ADAPTERS, Choke (Hand)

American Muffler Co 1280 Tremont St Boston 20 Mass "Redex"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Superior Screw & Mfg Co P O Box 436 Crystal Lake Ill "Aldo"

## ADAPTERS, Drive

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich

**ADAPTERS, LP-Gas—See Regulators, Adaptors and Vaporizers, LP-Gas**

## ADDITIVES, Cutting Fluid

**DOW CHEMICAL CO Midland Mich "Dowicide"**
**DOW CORNING CORP Midland Mich (Silicone)**
Johnson & Son Inc S C 1525 Howe St Racine Wis "Johnson Cold Stream"
Lilly Co Eli 740 S Alabama St Indianapolis 6 Ind "Elcide"

## ADDITIVES, Grease

**ACHESON COLLOIDS CO 1925 Washington Ave Port Huron Mich**

## ADDITIVES, Oil and Lubricant

**ACHESON COLLOIDS CO Div of Acheson Industries Inc 1925 Washington Ave Port Huron Mich (Lubricant)**
Alox Corp Buffalo Ave Iroquois St Niagara Falls N Y (Lubricant)
Casite Div Hastings Mfg Co N Hanover St Hastings Mich
Climax Molybdenum Co 500 Fifth Ave N Y 36 N Y (Oil)
**DOW CHEMICAL CO Midland Mich**
Elco Lubricant Corp Jennings Rd & Denison Ave Cleveland 9 Ohio "SCL" (Gear lubricant)
Enjay Chemical Co Div of Humble Oil & Refining 15 W 51st St N Y 19 N Y
Hollingshead Corp R M 840 Cooper St Camden 2 N J "Universal"
King Graphite Products Inc 21949 S Telegraph Rd Trenton Mich "MY-T2"
Lubrication Engineers Inc 2807 Race St Fort Worth 11 Tex "L-X"
Lubri-Loy Co 6319 Wilson St St Louis 10 Mo "Lubri-Loy" (Crankcase "Gear-Loy" gear)
Magnus Chemical Co 185 South Ave Garwood N J (Oil)
Moly Motor Products Corp 314 Scholes St Brooklyn 6 N Y "Moly-Flo" (Crankcase and motor oil)
Pyroil Co 122 N Main St LaCrosse Wis (Crankcase oil)
Shaler Co Waupun Wis "Shaler Elelone" (Oil)
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill (Crankcase oil)
Sun Oil Co 1608 Walnut St Philadelphia 3 Pa "Sunoco Ocnus" "Sunoco Dynasol"
White & Bagley Co 100 Foster St Worcester 8 Mass (Oil)
Wilson Co 959 Commonwealth Ave Boston Mass (Oil)

## ADDITIVES, Plating

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Isobrite"**
Diamond Alkali Co 300 Union Commerce Bldg Cleveland 14 Ohio "CPA 1800" (Chrome)
Lea Mfg Co 16 Cherry Ave Waterbury 20 Conn
**UDYLITE CORP 1651 E Grand Blvd Detroit 11 Mich "Zero-Mist"; "Udylite N2-E" (Nickel)**

## ADHESIVES

**(See also Cement, for Bonding Rubber to Metal, Wood, etc.; also Resins, Synthetic (For Bonding, Impregnating, Laminating & Protective Coating)**

American Latex Products Corp 3341 W El Segundo Blvd Hawthorne Calif "Stabond"
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa
B B Chemical Co 784 Memorial Drive Cambridge 39 Mass "Bostik"
Borden Chemical Co Div of Borden Co 350 Madison Ave New York 17 N Y "Polyco"
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich "Cycleweld"
Dacar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa "Daxcel"
Daubert Chemical Co 4700 S Central Ave Chicago 38 Ill "DC"
du Pont de Nemours & Co E I Fabrics & Finishes Dept Finishes Div Wilmington 98 Del "Duco"
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Firestone Rubber & Latex Products Co Fall River Mass
Flintkote Co 30 Rockfeller Plaza New York 20 N Y
Hadley Bros-Uhl Co 514 Calvary St St Louis 15 Mo "Had-U-Tex"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa
Hughson Chemical Co Div Lord Mfg Co Greengarden at 12th St Erie Pa "Chemlok"
Marbon Chemical Div Borg-Warner Corp Box 68 Washington W Va "Tv-Ply"
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3M"
Mortell Co J W 550 N Hobbie Ave Kankakee Ill
Permacel U S Highway No 1 New Brunswick N J
**RAYBESTOS - MANHATTAN INC Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M Raybond"**
Rubber & Asbestos Corp 225 Belleville Ave Bloomfield N J "Bondmaster" "Plymaster" "Trackmaster"
Tennessee Eastman Co Div of Eastman Kodak Co Kingsport Tenn "Eastman"
UBS Chemical Co 491 Main St Cambridge 42 Mass "Ubagrip" "Ubabond" "Ubapol" "Bondrite"

## ADJUSTERS, Brake Cable (Automatic)

**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind**

## ADJUSTERS, Driver's Seat

Acro Div Robertshaw-Fulton Controls Co 2010 E Main St Columbus 16 Ohio
American Forging & Socket Co P O Box 210 Pontiac Mich
American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich (Manual and electric)
Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill
Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Dura Corp Dura Div 4500 Detroit Ave Toledo 12 Ohio
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio "Eberhard Pedaloc" (Truck)
Electric Autolite Co Toledo 1 Ohio "Autolite"
Ferro Stamping Co 1367 Franklin St Detroit 7 Mich (Electric)
Hancock Mfg Co 225 N Horton St Jackson Mich
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif

## AFTERCOOLERS

**ADAMS CORP R P 264 E Park Drive Buffalo 17 N Y (Compressed air)**

## AGITATORS, Paint

De Vilbiss Co 300 Phillips Ave Toledo 1 Ohio
Ditzler Color Div Pittsburgh Plate Glass Co 8000 N Chicago Ave Detroit 4 Mich

**AIR CIRCULATING SYSTEMS (TRUCK-TRAILERS)—See Systems, Air Circulating (Truck-Trailer)**

**AIR CLEANERS—See Cleaners, Air**

**AIR COMPRESSORS—See Compressors, Air**

## AIR CONDITIONING UNITS, Auto Truck, Bus and Trailer

A R A Mfg Co P O Box 685 Grand Prairie Tex
Airtemp Div Chrysler Corp 1610 Webster St Dayton 1 Ohio (Sole distributor Mo Par Div Chrysler Corp Detroit 31 Mich)
Allen Industrial Products Inc 300 Pilgrim Rd Menomonee Falls Wis (Truck)
Capitol Refrigeration Inc 3333 E Kiest Blvd Dallas 3 Tex "Artic-Kar"
Carrier Corp Carrier Parkway Syracuse 1 N Y (Bus)
**EATON MFG CO Heater Div E 65th St & Central Ave Cleveland 4 Ohio**
Electronics Inc E on Highway 50 Vermillion S D "Electro-Magic"
Forston Co 2117 Judiway Houston 18 Tex "Forston" "Lincoln" "Continental Voyager"
Frigikar Corp 10858 Harry Hines Blvd Dallas Tex "Frigiking" (Front and rear auto; "Frigikar" rear auto; "Frigikab" truck; "Frigibus" bus)
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y (Auto)
Keco Industries Inc 2438 Beekman St Cincinnati 14 Ohio (Trailer)
Kysor Heater Co 1100 W Wright St Cadillac Mich (Truck cab)
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich (For Ford Mercury and Lincoln cars)
Mitchell Co John E 3800 Commerce St Dallas Tex "Mark IV" (Auto)
Novi Equipment Co 4515 E 48th St Los Angeles Calif
Parkomat Mfg Co 2000 S Akard St Dallas Tex "Carditioner" "Equi-Aire" "Parkomat"
Schofield Inc E L 216 Mill St Rockford Ill (Truck cab)
Thermo King Corp 314 W 90th St Minneapolis 20 Minn
Transportation Cooling Div McGraw Edison Co 5201 W 65th St Chicago 38 Ill (Bus)
York Div of Borg-Warner Corp York Pa

**AIR CONDITIONING UNIT PARTS — See Parts, Air Conditioning Unit (Auto)**

**AIR CONTROL VALVES — See Valves, Air Control**

**AIRCRAFT PARTS—See Bolts, Aircraft; Cable, Castings, Aircraft; Engines, Aircraft; Heaters, Aircraft; Motors, Electric (Aircraft Use); also Pumps, Fuel (Aircraft)**

**AIR PRESSURE GAGES—See Gages, Steam and Air**

**AIR PRESSURE REGULATORS—See Regulators, Air Pressure**

**AIR SPRINGS—See Spring, Air (Auto, Truck & Bus)**

**AIR SUSPENSIONS — See Suspensions, Air (Truck, Trailer and Bus)**

**ALARMS, Speed (Safety)—See Signals, Excess Speed**

## ALLOYS, Aluminum

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa" "Lo-Ex"
Anaconda Aluminum Co P O Box 1654 Louisville Ky
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y "Tenzaloy" "Federated" (Ingot)
Frontier Bronze Corp 4870 Packard Rd Niagara Falls N Y
Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
North American Smelting Co Tioga & Edgemont Sts Philadelphia 34 Pa "Nasco"
Olin Mathieson Chemical Corp Metals Div 400 Park Ave N Y 22 N Y
Precision Extrusions 720 E Green Ave Bensenville Ill
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y
Reynolds Metals Co 6601 Broad St Richmond 19 Va
U S Reduction Co Melville & Chicago Aves East Chicago Ind "Usco"
**VANADIUM CORP OF AMERICA 420 Lexington Ave New York 17 N Y "Vancoram" (Vanadium-aluminum Titanium-aluminum)**

## ALLOYS, Bismuth

Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Cerro DePasco Sales Corp 300 Park Ave N Y 22 N Y "Cerrobase" "Cerrobend" "Cerrocast" "Cerrosafe" "Cerromatrix" "Cerrotru" "Cerrolow" "Cerroseal"
Division Lead Co 7742 W 61st Pl Summit Ill "Divco"
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y

## ALLOYS, Brazing

Handy & Harman 62 Fulton St N Y 38 N Y

## ALLOYS, Chromium

**ALLEGHENY LUDLUM STEEL CORP 2020 Oliver Bldg Pittsburgh 22 Pa**
Crucible Stel Co of America Box 88 Pittsburgh 30 Pa
**METAL & THERMIT CORP Rahway N J "M & T"**
Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco"
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
Union Carbide Metals Co 270 Park Ave N Y 17 N Y
**VANADIUM CORP OF AMERICA 420 Lexington Ave New York 17 N Y "Vancoram" "Exlo" (Ferro-chromium)**

## ALLOYS, Copper

Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn "Ambraloy" "Everdur"
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Beryllium Corp P O Box 1462 Reading Pa "Berylco"
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind "Elkonite" "Mallory 3" & "Soldaloy"
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls" (Also titanium copper)
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y
S-M-S Corp 8605 Livernois Ave Detroit 4 Mich

## ALLOYS, Cutting (Cobalt, Chromium, Tantalum and Tungsten Carbide)

(See also Diamonds, Industrial)

**ALLEGHENY LUDLUM STEEL CORP 2020 Oliver Bldg Pittsburgh 22 Pa**
General Electric Co Metallurgical Products Dept 11777 E Eight Mile Rd Detroit 32 Mich "Carboloy" (Tungsten tantalum or titanium)
Haynes Stellite Co Kokomo Ind (Cobalt chromium-tungsten)
Viking Tool Co 1000 Nichols Rd Shelton Conn (Cobalt chromium tantalum and tungsten carbide)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich (Titanium Tantalum and Tungsten carbide)

## ALLOYS, Hard Facing

Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
Superweld Corp 6840 Vineland Ave North Hollywood Calif "Hi-C" (For cams)
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy"

## ALLOYS, Manganese

Chace Co W M 1600 Beard Ave Detroit 9 Mich
Union Carbine Metals Corp 270 Park Ave N Y 17 N Y
Vanadium Corp of America 420 Lexington Ave N Y 17 N Y (Silico manganese)

## ALLOYS, Magnesium

Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Federated Metals Div American Smelting & Refining Co 120 Broadway N Y 5 N Y
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
Vanadium Corp of America 420 Lexington Ave N Y 17 N Y "Vancoram"

## ALLOYS, Molybdenum

Climax Molybdenum Co 500 Fifth Ave New York 36 N Y

## ALLOYS, Nickel

Hoskins Mfg Co 4435 Lawton Ave Detroit 8 Mich "Copel" (Copper)
International Nickel Co 67 Wall St N Y 5 N Y "Inco" "Inconel" "Incoloy" "Ni-Resist" (Steel)
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich "Udimet"

## ALLOYS, Nickel-Chromium

**ALLEGHENY LUDLUM STEEL CORP 2020 Oliver Bldg Pittsburgh 22 Pa**
Alloy Metal Wire Co 13th & Pennsylvania Aves Moores Prospect Park Pa "Alray" (Wire rod and strip)
Driver-Harris Co Harrison 5 N J "Chromax" "Karma" "Nichrome"
General Alloys Co 387 W First St Boston 27 Mass "Q-Alloys"
Hoskins Mfg Co 4435 Lawton Ave Detroit 8 Mich "Chromel"
**INTERNATIONAL NICKEL CO 67 Wall St New York 5 N Y "Inco" "Inconel"**
Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco"
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy"

## ALLOYS, Nickel-Iron-Chromium

**INTERNATIONAL NICKEL CO 67 Wall St N Y 5 N Y "Incoloy"**

## ALLOYS, Silicon Bronze

Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y

## ALLOYS, Titanium

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**

## ALLOYS, Vanadium

Union Carbide Metals Co 30 E 42nd St N Y 17 N Y
**VANADIUM CORP OF AMERICA 420 Lexington Ave New York 17 N Y "Vancoram" (Ferro-vanadium)**

## ALLOYS, Zinc Die Casting

American Zinc Lead & Smelting Co 1600 Paul Brown Bldg St Louis 1 Mo (Sole distributors American Zinc Sales Co 1600 Paul Brown Bldg St Louis 1 Mo)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y

## ALLOYS, Zinc Die Casting—continued

Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y
National Lead Co 111 Broadway N Y 6 N Y
New Jersey Zinc Co 160 Front St New York 38 N Y "Horse Head Zamak"
U S Reduction Co Melville & Chicago Aves East Chicago Ind (Ingots)

**ALTERNATOR RECTIFIERS AUTO—See Rectifiers, Alternator (Auto)**

## ALTERNATORS, Auto, Truck and Bus

Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
**ELECTRIC AUTOLITE CO Toledo 1 Ohio "Autolite"**
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio

**ALUMINUM BRONZE—See Bronze, Aluminum**

**ALUMINUM CASTINGS—See Castings, Aluminum**

**ALUMINUM EXTRUSIONS—See Extrusions, Aluminum**

**ALUMINUM PAINTS—See Paints, Aluminum and Bronze**

## ALUMINUM (Sheet, Rod and Ingot)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
American Nickeloid Co Peru 34 Ill (Nickel and chrome plated aluminum in sheets)
Anaconda Aluminum Co P O Box 1654 Louisville Ky (Pig ingot sheet circle plate rod and bar)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Ingot)
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn (Strip)
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn (Rod bar wire sheet tube and shapes)
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa (Sheet rod strip and wire)
Fairmont Aluminum Co Fairmont W Va "Falco" (Sheet coil and circles)
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y (Ingot)
Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn "USA" (Ingot)
Harvey Aluminum 19200 S Western Ave Torrance Calif (Rod bar pig and ingot)
Kaiser Aluminum & Chemical Corp 300 Lakeside Dr Oakland 12 Calif (Pig ingot rod bar plate and wire)
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls" (Ingot)
North American Smelting Co Marine Terminal Wilmington Del (Ingot and shot)
Olin Mathieson Chemical Corp Metals Div 400 Park Ave N Y 22 N Y
Pioneer Aluminum Inc 5251 W Imperial Hwy Los Angeles 45 Calif (Tooling plate)
Precision Extrusions 720 E Green Ave Bensenville Ill (Extruded shapes rod bar and tubing)
Revere Copper & Brass Inc 230 Park Ave N Y 17 N Y
**REYNOLDS METALS CO 6601 Broad St Richmond 19 Va (Sheet plate wire rod bar ingot and pig)**
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn

**ALUMINUM TUBING—See Tubing, Aluminum**

## AMMETERS, Instrument Board

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**
Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave., Newark 12 N J
Hoyt Electrical Instrument Works Inc 42 Carleton St Cambridge 42 Mass (Sole distributors Burton-Rogers Co 42 Carleton St Cambridge 42 Mass)
King-Seeley Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S Telegage"
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Simpson Electric Co Div of American Gage & Machine Co 5208 W Kinzie St Chicago 44 Ill
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
United States Gauge Div of American Machine and Metals Inc Clymer Ave Sellersville Pa

## AMMETERS and VOLTMETERS (Including Switchboard)

Bristol Co Waterbury 20 Conn
Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave Newark 12 N J
Electric Autolite Co Toledo 1 Ohio "Autolite"
Esterline-Angus Co P O Box 596 Indianapolis 6 Ind
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Herbrand Div Bingham-Herbrand Corp Lake and Stone Sts Fremont Ohio (Voltmeters)
Hoyt Electrical Instrument Works Inc 42 Carleton St Cambridge 42 Mass (Sole distributors Burton-Rogers Co 42 Carleton St Cambridge 42 Mass)
King-Seeley Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Mercury Electric Co 2311 Tauromee Ave Kansas City Kan
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Simpson Electric Co Div of American Gage & Machine Co 5208 W Kinzie St Chicago 44 Ill

## ANALYZERS, Combustion

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip"
Cambridge Instrument Co 420 Lexington Ave N Y 1 N Y
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich "Mixture Master"
Du Mont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Engelhard Industries Inc Instruments & Systems Div 850 Passaic Ave E Newark N J
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Heyer Industries Inc 500 Cortlandt St Belleville 9 N J
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Permutit Co 50 W 44th St N Y 36 N Y "Ranarex"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Weidenhoff Corp Algona Iowa

## ANALYZERS, Engine and Electrical Equipment

**(See also Stands Electric Test)**

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip"
Bee-Line Co P O Box 569 Davenport Iowa (Electrical)
Bendix Products Div Bendix Corp South Bend 20 Ind "Hydrovac"
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich
Du Mont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Heyer Industries Inc 500 Cortlandt St Belleville 9 N J "Heyer Dyna-Vision"
International Research & Development Co 6150 Huntley Rd Worthington Ohio (Engine vibration)
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Mack Products Co 15 Putnam St Winthrop Mass
Nankervis Co George L 15300 Fullerton St Detroit 27 Mich (Shock absorbers transmissions differentials etc)
Schauer Mfg Co 4500 Alpine Ave Rossmoyne O
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Snap-On Anal-O-Scope" (Ignition system)
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Triple-A Specialty Co 2835 N Western Ave Chicago 18 Ill "Silver Beauty"
Weidenhoff Corp Algona Iowa

**ANNEALING—See Treating, Heat**

**ANNEALING BOXES AND POTS—See Boxes and Pots, Annealing and Case-Hardening**

## ANODES, Electroplating

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Flat Top" (Zinc and copper "Lectrocop" flat copper; cadmium white brass etc)**
American Zinc Lead & Smelting Co 1600 Paul Brown Bldg St Louis 1 Mo "Azco" (Sole distributors American Zinc Sales Co 1600 Paul Brown Bldg St Louis 1 Mo)
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn (Copper brass and bronze)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Camdium copper lead nickel and zinc)
Division Lead Co 7742 W 61st Pl Summit Ill "Divco" (Lead chrome and tin)
du Pont de Nemours & Co E I Electrochemicals Dept Chlorine Products Div Wilmington 98 Del (Cadmium)
Electric Materials Co Clay & Washington Sts North East Pa (Copper)
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y (Copper lead tin zinc brass & cadmium)
Handy & Harman 82 Fulton St New York 38 N Y (Silver)
Hanson-Van Winkle-Munning Co Matawan N J "H-V-W-M" (Brass copper nickel zinc cadmium etc)
Harshaw Chemical Co 1945 E 97th St Cleveland 6 Ohio
Metal & Thermit Corp Rahway N J "M & T"
Revere Copper & Brass Inc 230 Park Ave New York 17 N Y
Seymour Mfg Co 15 Franklin St Seymour Conn (Nickel)
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

**ANTENNAS—See Radio Accessories, Auto**

## ANTI-FREEZE, Cooling System

Dacar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa "Permento"
**DOW CHEMICAL CO Midland Mich "Dowgard" "Ambitrol"**
du Pont de Nemours & Co E I Industrial & Biochemicals Dept Wilmington 98 Del "Zerone" "Zerex" "Telar" (Anti-rust)
Esso Standard Oil Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y "Atlas Permaguard" "Atlas Coldex"
Gulf Oil Corp P O Box 2140 Houston 1 Tex "Coldflo" "Gulf"
Houston Chemical Corp 200 Madison Ave N Y 16 N Y "Nor'way" "Peak"
Jefferson Chemical Co 1121 Walker St Houston 2 Tex
Master Automotive Chemicals Inc 37 Preston Ct Brooklyn 34 N Y "Gold Seal"
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Octagone"
Olin Mathieson Chemical Corp Chemicals Div Mathieson Bldg Baltimore 3 Md "Pyro" "Super-Pyro"
Randall Products Mfg Co 2095 Broadway New York 23 N Y "Rand-Zone" & "Fleetline"
Shell Oil Co 50 W 50th St New York 20 N Y
Speco Inc 7308 Associate Ave Cleveland 9 Ohio "Speco" "Freezex" "Freez-Rem" "Winterset"
Texaco Inc 135 E 42nd St New York 17 N Y
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y "Prestone" "Trek"
Union Carbide Chemicals Co 270 Park Ave N Y 17 N Y

## ANTI-FREEZE, Gasoline Line

Barton Products Co 1891 N Winnebago Ave Chicago 47 Ill
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind "Power-Aid"
Cristy Chemical Corp 37 Harvard St Worcester 8 Mass "Cristy Drygas"
Dacar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa "Mototuner"
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
du Pont de Nemours & Co E I Fabrics & Finishes Dept Finishes Div Wilmington 98 Del
Glisten Co P O Box 281 Hillsdale Mich
Heet Div of DeMert & Dougherty Inc 5000 W 41st St Chicago 50 Ill
Hollingshead Corp R M 840 Cooper St Camden N J "Whiz Zorbit"
Livingston Co 150 Amity Rd New Haven 15 Conn "ICU Livegas"
Siloo Inc 9 E 45th St N Y 17 N Y
Standard Oil Co of Calif Western Operations Inc 225 Bush St San Francisco 20 Calif "Chevron"
Tumbler Laboratories Inc J A 423 S Hanover St Baltimore 1 Md
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y "Prime"
Wilco Co 4425 Bandini Blvd Los Angeles 23 Calif
"X" Laboratories 25 W 45th St N Y 36 N Y "Satin Gas"
Zecol Inc 3270 S 3rd St Milwaukee 7 Wis

ANTI-SQUEAK, BODY—See Lining, Body or Frame

ARBORS, EXPANDING—See Mandrels, Expanding

ARM RESTS—See Rests, Arm

## ARMATURES

American Generator & Armature Co 6100 W Grand Ave Chicago 39 Ill
General Armature & Mfg Co Box 370 Lock Haven Pa "BV"

ARMATURE BAKING OVENS — See Ovens, Molded Products

ARMATURE BANDING WIRE — See Wire, Armature Banding

ARMATURE GROWLERS — See Instruments, Electrical Circuit Testing

## ARMS, Breaker

Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Shurhit Products Inc 845 S Market St Waukegan Ill
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

## ARMS, Rocker

**CHICAGO SCREW CO Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill**

## ARRESTORS, Spark (Exhaust)

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

## ASSEMBLIES, Four-Wheel Drive (For Light and Medium Trucks)

**DANA CORP 4100 Bennett Rd Toledo 1 Ohio**

ASSEMBLIES FRONT DRIVE—See Axles, Front Drive

ASSEMBLY MACHINES AUTOMATIC—See Machines, Automatic Assembly

## ATTACHMENTS, Lathe

**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "JeTracers" (Tracers)**

## ATTACHMENTS, Milling Machine

Greenlee Bros & Co 1702 Mason Ave Rockford Ill

## ATTACHMENTS, Sheet Metal Working

**WALES-STRIPPIT INC 242 Buell Rd Akron N Y "Strippit Flex-O-Drill" (Punching notching and nibbing units)**

AUTOMATIC TRANSFER MACHINES — See Machines, Automatic Transfer (Production)

AUTOMOBILES (BUSES)—See Buses

AUTOMOBILES (FIRE APPARATUS)—See Trucks, Fire

## AUTOMOBILES (Passenger Cars)

American Motors Corp Automotive Div 14250 Plymouth Rd Detroit 32 Mich "Rambler"
Buick Motor Div General Motors Corp Hamilton & Industrial Aves., Flint 2 Mich
Cadillac Motor Car Div General Motors Corp 2860 Clark Ave Detroit 32 Mich
Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich "Superba" "Checker" (Taxicabs)
Chevrolet Motor Div of General Motors Corp General Motors Bldg Detroit 2 Mich "Chevrolet" "Corvair" "Corvette"
Chrysler Corp Chrysler & Imperial Div 12200 E Jefferson Ave Detroit 31 Mich "Chrysler" "Imperial"
Dodge Div Chrysler Corp 7900 Joseph Campau Ave Detroit 31 Mich "Dodge" "Dodge-Dart" "Lancer"
Ford Div Ford Motor Co Rotunda Dr & Southfield Ave Dearborn Mich "Ford" "Falcon" "Thunderbird"
Lincoln-Mercury Div of Ford Motor Co 3000 Schaefer Rd Dearborn Mich "Lincoln Continental" "Mercury" "Comet"
Oldsmobile Div General Motors Corp Townsend St Lansing 21 Mich
Plymouth Div Chrysler Corp 6334 Lynch Rd Detroit 31 Mich "Plymouth" "Valiant" (Also taxicabs)
Pontiac Motor Div General Motors Corp Pontiac 11 Mich "Pontiac" "Tempest" (Also taxicabs)
Studebaker-Packard Corp 635 S Main St South Bend 27 Ind "Studebaker-Lark" "Studebaker-Hawk" "Studebaker Econ-O-Miler" (Taxicabs)

AUTOMOBILES (MOTOR TRUCKS) — See Trucks, Motor

AXLE SHAFTS—See Shafts, Rear Axle

## AXLE SUSPENSION UNITS, for Trailers

Bartlett Trailer Corp 3080 Archer Ave Chicago 8 Ill
Copco Trailers Div of Copco Steel & Engrg Co 2901 S Main St South Bend Ind
Fayette Mfg Co Box 8 Fayette Ohio
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich
Great Dane Trailers Inc PO Box 1159 Savannah Ga
Hammer Blow Tool Co 602½ Third St Wausau Wis
Hendrickson Mfg Co 8001 W 47th St Lyons Ill
Highway Trailer Co 405 E Fulton St Edgerton Wis
Hutchens & Son Metal Products Inc 2332 E Division St Springfield Mo
Kingham Trailer Co 15th & Hill Sts Louisville 10 Ky
Neway Equipment Co 1183 E Laketon St Muskegon Mich
Page & Page 0605 S W Curry St Portland 1 Ore
Pointer-Willamette Co P O Box 368 Edmonds Wash "Feather Ride" "P-W" "West Pointer"
Reynolds Mfg Co 600 N Prospect Ave Springfield 2 Mo "Reyco"
Shuler Axle Co 2901 S 2nd St Louisville 8 Ky
Spencer-Safford Loadcraft Inc Augusta Kans
Standard Forge & Axle Co PO Box 309 Montgomery 2 Ala
Trailmobile Inc 31st St & Robertson Ave Cincinnati 9 Ohio
Truck Equipment Co 1791 Fillmore Ave Buffalo 14 N Y "Tandemtrac"
Trucktor Corp PO Box 1137 Mountainside N J
United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Caravan"
Western Unit Corp 17747 E Railroad St City of Industry Calif
Youngstown Steel Car Corp Hunter St Niles Ohio "Hoobler" (Self-steering undercarriage)

## AXLE UNITS, Third, for Trucks

**DETROIT AUTOMOTIVE PRODUCTS CORP 8701 Grinnell Ave Detroit 13 Mich "Thornton Drive" (Four wheel drive; also "Load Booster")**
F A B Mfg Co 1249 67th St Oakland 8 Calif "Fabco"
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich "Tonnage Master"
Heil Co TEC Div 1285 W 70th St Cleveland 2 Ohio
Hendrickson Mfg Co 8001 W 47th St Lyons Ill
Hutchens & Son Metal Products Inc 2332 E Division St Springfield Mo
Little Giant Products Inc 1530 N Adams St Peoria 3 Ill
Neway Equipment Co 1183 E Laketon St Muskegon Mich
Page & Page Co 0605 S W Curry St Portland 1 Ore
Reynolds Mfg Co 600 N Prospect Ave Springfield 2 Mo "Reyco"
Trailmobile Inc 31st St & Robertson Ave Cincinnati 9 Ohio
Truck Equipment Co 1791 Fillmore Ave Buffalo 14 N Y "Tandemtrac"
Truckstell Mfg Co 3490 W 140th St Cleveland 11 Ohio "Baumis" "Chief-Ton" "Forty-Hi" "Hydro-Trac" "Truckstell" "Truckstell Willock"
Trucktor Corp P O Box 1137 Mountainside N J (Also chain and sprocket drive)
Weber Trailer & Mfg Co 8400 E Slauson Ave Pico-Rivera Calif (Mailing address P O Box 2473 Los Angeles 54 Calif)

## AXLES, Front

(Finished or machined axles; for axle forgings—See Forgings)

Bolling Wheel & Axle Div Anderson-Bolling Mfg Corp P O Box 350 Grand Haven Mich
**CLARK EQUIPMENT CO Automotive Div Buchanan 2 Mich (Truck and bus)**
**EATON MFG CO Axle Div 739 E 140th St Cleveland 10 Ohio (Truck)**
Hahn Motors Inc 400 S Third St Hamburg Pa "Spangler" (Dual for trucks)
Page & Page Co 0605 S W Curry St Portland 1 Ore
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Rockwell-Standard" "Timken-Detroit" (Truck and bus)**
**SHULER AXLE CO 2901 S Second St Louisville 8 Ky**
United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Caravan"

## AXLES, Front Drive

American Coleman Co 301 S Nevada Ave Littleton Colo
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio**
F A B Mfg Co 1249 67th St Oakland 8 Calif "Fabco"
Marmon-Herrington Co 1511 W Washington St Indianapolis 7 Ind (For Ford conversions)
Napco Industries Inc Napco Axle Div 834 N Seventh St Minneapolis 11 Minn
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Rockwell-Standard" "Timken-Detroit" (For trucks)**

## AXLES, Planetary

**CLARK EQUIPMENT CO Automotive Div Buchanan 2 Mich**
F W D Corp E 12th St Clintonville Wis
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich**

## AXLES, Rear

(Complete rear axle units; for axle parts—See specific article)

Clark Equipment Co Automotive Div Buchanan 2 Mich (Truck and bus)
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Detroit Automotive Products Corp 8701 Grinnell Ave Detroit 13 Mich
**EATON MFG CO Axle Div 739 E 140th St Cleveland 10 Ohio (Tandem for trucks)**
Hendrickson Mfg Co 8001 W 47th St Lyons Ill (Wheel reduction)
Napco Industries Inc Napco Axle Div 834 N Seventh St Minneapolis 11 Minn
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Rockwell-Standard" "Timken-Detroit" (Also tandem for trucks)**

## AXLES, Rear (Two Speed)

**EATON MFG CO Axle Div 739 E 140th St Cleveland 10 Ohio (Single and double reduction)**
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Rockwell-Standard" "Timken-Detroit" (For trucks)**

## AXLES, Trailer

(Finished or machined trailer axles, for trailer axle forgings—See Forgings)

Brown Corp 213 Bellevue Ave Syracuse N Y (House)
Clark Equipment Co Automotive Div Buchanan 2 Mich
Fayette Mfg Co Box 8 Fayette Ohio
French & Hecht Div Kelsey-Hayes Co P O Box 690 Davenport Iowa
Hammer Blow Tool Co 602½ Third St Wausau Wis "Torq-less"
Hendrickson Mfg Co 8001 N 47th St Lyons Ill
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Calif "K-B" (Truck)
Kingham Trailer Co 15th & Hill Sts Louisville Ky
Liggett Spring & Axle Co Monongahela Pa
Liggett Supply & Equipment Co 2030 S Main St Elkhart Ind
Napco Industries Inc Napco Axle Div 834 N Seventh St Minneapolis 11 Minn
Prior Products Inc 4828 Racell St Dallas Tex "Prior-Linco"
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Rockwell-Standard" "Timken-Detroit"**
**SHULER AXLE CO 2901 S Second St Louisville 8 Ky**
Spencer Mfg Co 225 N Main St Spencer Ohio
Spencer-Safford Loadcraft Inc Augusta Kan "Loadcraft"
Springfield Body & Trailer Co 1631 College St Springfield Ohio "Frazier"
Standard Forge & Axle Co P O Box 309 Hunter Station Montgomery 2 Ala
Trucktor Corp P O Box 1137 Mountainside N J
United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Caravan"

BABBITT METAL—See Metals, Bearing

**BACKING FABRIC FOR UPHOLSTERY—See Fabric, Backing (For Upholstery)**

**BAKING LAMPS—See Lamps, Drying, Baking and Heating**

## BALANCERS, Portable Tool

Aero-Motive Mfg Co 1803 Alcott St Kalamazoo 24 Mich "Zoo" (Up to 200 pounds)
Appleton Electric Co 1701 Wellington Ave Chicago 13 Ill "Retract-O-Reel"
Benjamin Reel Products Inc 10700 Broadway Cleveland 25 Ohio
Chicago Pneumatic Tool Co 6 E 44th St New York 17 N Y "CP"

**BALANCING MACHINES, WHEEL—See Machines, Balancing (Wheel)**

**BALL BEARING SCREWS—See Screws, Ball Bearing**

**BALL BEARINGS—See Bearings, Ball**

**BALL CONES, CUPS and RACES—See Cups and Cones, Ball**

**BALL JOINTS—See Joints, Ball**

**BALL RACE GRINDING MACHINES—See Machines, Grinding (Ball Race)**

**BALL RETAINERS—See Retainers, Ball**

## BALLS, Bearing

(For use in ball bearings—For complete bearings—See Bearings, Ball)

Abbott Ball Co 35 Railroad Pl Hartford 10 Conn
Ace Plastic Co 91 Van Wyck Expressway Jamaica 35 N Y (Plastic and nylon)
Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y (Steel)
Coolidge Corp Wildwood Rd & Enoch Dr Middletown O (Chrome alloy and stainless steel)
Gwilliam Co 360 Furman St Brooklyn 1 N Y (Steel)
Hartford Steel Ball Co Drawer Q Sta A Hartford 6 Conn
Hoover Ball & Bearing Co Bearing Div Ann Arbor Mich (Steel)
**NEW DEPARTURE Div General Motors Corp 269 N Main St Bristol Conn (Steel)**
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa "Atlas" (Steel)
Strom Steel Ball Co Erwin Tenn (Steel brass bronze Monel metal and stainless steel)
Superior Steel Ball Co 20 Lake St New Britain Conn (Steel)

**BAND SAW BLADES—See Blades, Saw (Band)**

**BAND SAWING MACHINES—See Machines, Sawing (Band)**

**BANDS, ENDLESS ABRASIVE—See Belts or Bands, Endless Abrasive (Industrial)**

## BARRELS, Blast Cleaning

Wheelabrator Corp 1466 S Byrkit St Mishawaka Ind

## BARRELS, Burnishing and Tumbling

**ALMCO QUEEN PRODUCTS Div King-Seeley Corp 901 E Main St Albert Lea Minn**
Baird Machine Co 1700 Stratford Ave Stratford Conn
Crown Rheostat & Supply Co 1965 Pratt Blvd Elk Grove Village Ill (Tumbling)
Grav-i-Flo Corp 400 Norwood Ave Sturgis Mich
Hanson-Van Winkle-Munning Co Matawan N J "H-VW-M" (Burnishing)
Hartford Steel Ball Co Drawer Q Sta A Hartford 6 Conn (Tumbling)
Lord Chemical Co 2068 S Queen St York Pa "Lorco"
Oakite Products Co 19 Rector St N Y 6 N Y
Pangborn Corp 200 Pangborn Blvd Hagerstown Md (Tumbling)
Rampe Mfg Co 14915 Woodworth Ave Cleveland 10 Ohio (Tumbling)
Ransohoff Co N 5th St at Ford Blvd Hamilton Ohio
Roto-Finish Co 3700 Milham Rd Kalamazoo Mich
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich
Sutton Engrg Co First National Bank Bldg Pittsburgh 22 Pa (Tumbling)
Techline Div of Wheelabrator Corp 1466 Ave V Vicksburg Mich
Vibraslide Inc 95 Prospect Ave Binghamton 25 N Y (Vibratory sole distributors M-F Equipment Co 410 Frelinghuysen Ave Newark 12 N J)
Whiting Corp 157th & Lathrop Sts Harvey Ill (Tumbling)

## BARS, Boring (For Machines)

Allen Mfg Co W D 566 W Lake St Chicago Ill
Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Bullard Co 286 Canfield Ave Bridgeport 9 Conn "Multi-Bar"
Clark Co Robert H 9330 Santa Monica Blvd Beverly Hills Calif
Detroit Boring Bar Co 321 W Ten Mile Rd Hazel Park Mich
Ferry Machine Co P O Box 299 Kent Ohio (For lathes)
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Globe Tools 3380 Robertson Blvd Los Angeles 34 Calif
Kennametal Inc Lloyd Ave Latrobe Pa
Lovejoy Tool Co 133 Main St Springfield Vt
McCrosky Tool Corp S Main St Meadville Pa
Madison Industries Inc P O Box 1137 Providence 1 R I
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind
Maxwell Industries Inc 493 E Fifth St Ashtabula Ohio
Muskegon Tool Industries Inc 11th & Western Ave Muskegon Mich "MTI"
O K Tool Co Milford N H
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Universal Engineering Co 126 N Main St Frankenmuth Mich
Viking Tool Co 1000 Nichols Rd Shelton Conn
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich (Adjustable)
Wetmore Reamer Co 420 N 27th St Milwaukee 8 Wis (Adjustable)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

**BARS, CORED AND SOLID—See Metals, Bearing**

## BARS, Draw

(For trailer connection)

Holland Hitch Co 430 W 18th St Holland Mich

**BARS, STEEL—See Steel or Iron, Bar; also Steel, Cold Rolled and Drawn Bar**

## BARS, Sway

**MONROE AUTO EQUIPMENT CO 1426 E First St Monroe Mich**

**BASE PLATES—See Plates, Surface**

## BASKETS, Dipping

Buffalo Wire Works Co 506 Terrace St Buffalo 2 N Y
Cambridge Wire Cloth Co Cambridge Md (For heat treating)
Circo Co 51 Terminal Ave Clark N J
Cleveland Wire Cloth & Mfg Co 3573 E 78th St Cleveland 5 Ohio (Woven wire)
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill
Darby & Son Inc Edw J 1517 Germantown Ave Philadelphia 22 Pa "Pennsylvania"
Hanson-Van Winkle-Munning Co Matawan N J
Jelliff Mfg Corp C O Pequot Rd Southport Conn
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 O "K & B"
Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco"
Mid-West Wire Products Co 2555 Fenkell Ave Detroit 38 Mich "Carryers"
Pressed Steel Co 705 N Pennsylvania Ave Wilkes-Barre Pa
Rolock Inc 1350 Kings Highway Fairfield Conn
Smith Co John P 433 Chapel St New Haven 7 Conn
Stanwood Corp 4819 Cortland St Chicago 39 Ill
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich
Tyler Co W S 3615 Superior Ave Cleveland 14 Ohio
Wheeling Bronze Casting Co 36th & McColloch Sts Wheeling W Va

## BATTERIES, Storage (Auto)

American Battery Co 1520 McGavock St Nashville 3 Tenn
Automatic Battery Co of America 132 S Center St Goldsboro N C "ABCO"
Bowers Battery & Spark Plug Co Reading Pa
Cellomatic Battery Corp Archbald Pa
Continental Battery Co 4919 Woodall St Dallas 7 Tex
Continental Mfg Corp 10411 W Washington Blvd Culver City Calif "Life-Time"
Crescent Battery & Light Co 818 Camp St New Orleans 12 La
Cumberland Battery Mfg Co 900 Ewing Ave Nashville Tenn "Southern"
**DELCO-REMY Div General Motors Corp 2401 Columbus Ave Anderson Ind**
Douglas Battery Mfg Co Winston Salem N C
East Penn Mfg Co Lyons Station Pa "Deka"
Electric Autolite Co Battery Divs Toledo 1 Ohio "Autolite"
Exide Sales Automotive Div Electric Storage Battery Co PO Box 6266 Cleveland 1 Ohio
Gates Rubber Co 999 S Broadway Denver 17 Colo (Truck and bus)
General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio
Gill Electric Mfg Corp 624 W Citrus Ave Redlands Calif
**GLOBE UNION INC 900 E Keefe Ave Milwaukee 1 Wis**
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Gould-National Batteries Inc E-1201 First National Bank Bldg St Paul 1 Minn "Gould" "Hobbs" "National"
Grant Sales Automotive Div Electric Storage Battery Co 708 S Third St Minneapolis 15 Minn
Gulf Oil Corp PO Box 2140 Houston 1 Tex
Kelly-Springfield Tire Co PO Box 300 Cumberland Md
Laher Battery Production Corp 2615 Magnolia St Oakland 7 Cal "Exeter" "Laher" & "Mustang"
Lee Rubber & Tire Corp Conshohocken Pa
Nic-L-Silver Battery Co 600 Terminal St Santa Ana Calif "Multnomah" "Nic-L-Silver"
Pate Oil Co 3460 W Leeds Pl Milwaukee 15 Wis "Duraglide"
Pennsylvania Tire Co P O Box 377 Mansfield Ohio
Perrine Battery Corp 55 Rumford Ave Waltham Mass "Perrine Polar Bear"
Prest-O-Lite Battery Div Electric Auto-Lite Co Toledo Ohio
Price Battery Corp Grand St Hamburg Pa "Thor" ("Lyons" sole distributors Lyons Storage Battery Co Hamburg Pa "Witherbee" sole distributors Witherbee Storage Battery Co Hamburg Pa)
Reading Batteries Div Electric Auto-Lite Co 4700 Fifth Street Highway Temple Pa "Rebat"
Red Diamond Battery Mfg Co 1415 N Adams St Peoria 3 Ill
Reliance Battery Products Co 2211 S Eighth St Council Bluffs Iowa "Packard" "Reliance"
Scranton Storage Battery Corp Delaware St Archbald Pa "Corsair" "Duroc" "Scranton"
Southland Battery Co 2040 Amelia St Dallas Tex
Standard Electric Co P O Box 6356 San Antonio Tex "Reliable" "Star" "Stelco" "Ful-O-Pep" "Comet"
States Batteries Inc 3455 S Lacienega Blvd Los Angeles 16 Calif
Trojan Battery Co 724 E 61st St Los Angeles Calif
Universal Battery Co 3410 S La Salle St Chicago 16 Ill "Universal" "Coliseum"
Westric Battery Co 4201 Galapago St Denver 16 Colo
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio
Wisco Div Electric Storage Battery Co Racine Wis

## BATTERIES, Storage (Industrial)

(For industrial trucks and tractors)

C & D Batteries Div Electric Autolite Co Conshohocken Pa
Cellomatic Battery Corp Archbald Pa
Exide Industrial Div Electric Storage Battery Co Rising Sun & Adams Ave Philadelphia 20 Pa
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J "Gould" "Kathanode"
Nickel Alkaline Battery Div Electric Storage Battery Co West Orange N J "Edison"
Reading Batteries Div Electric Auto-Lite Co 4700 Fifth Street Highway Temple Pa "Rebat"
Southland Battery Co 2040 Amelia St Dallas Tex
Surrette Storage Battery Co Jefferson Ave Salem Mass
Trojan Battery Co 724 E 61st St Los Angeles Calif

**BATTERY CHARGERS, INDUSTRIAL TRUCK—See Chargers, Battery (Industrial Truck)**

**BATTERY PARTS and SUPPLIES—See Bolts, Battery Hold Down; Boxes, Battery; Cables; Clamps, Battery Hold Down; Compounds, Battery Sealing; Covers, Storage Battery; Paints, Storage Battery Terminal; Parts, Storage Battery; Separators, Storage Battery; Terminals, Storage Battery**

**BATTERY WARMERS, WINTER—See Warmers, Battery (Winter)**

**BEARING METALS—See Metals, Bearing**

**BEARING OIL GROOVING MACHINES—See Machines, Oil Grooving**

## BEARINGS, Ball

**(See also Balls, Bearing; Cups and Cones Ball; also Retainers Ball)**

**AETNA BALL & ROLLER BEARING CO Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill (Thrust and angular contact)**

American Ball Bearing Corp 70 Flushing Ave Brooklyn N Y "ABC"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Andrews Bearing Co PO Box 570 Spartanburg S C (Thrust)
Automotive Thrust Bearings Corp 2021 S Michigan Ave Chicago 16 Ill "ATB"
Ball & Roller Bearing Co 22 Maple Ave Danbury Conn "B&RB"

**BEARINGS CO OF AMERICA Div of Federal-Mogul-Bower Bearings Inc 501 Harrisburg Ave Lancaster Pa "BCA"**

Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Burgess-Norton Mfg Co 737 Peyton St Geneva Ill (Assemblies)
Fafnir Bearing Co 37 Booth St New Britain Conn
Federal Bearings Co 17 Fairview Ave Poughkeepsie N Y
General Pressed Metal Corp 926 Wolf St Syracuse 8 N Y
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Green Ball Bearing Co 9518 Cassius Ave Cleveland 5 Ohio
Gwilliam Co 360 Furman St Brooklyn 1 N Y
Hoover Ball & Bearing Co Bearing Div Ann Arbor Mich
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Kaydon Engineering Corp Muskegon Mich "Reali-Slim"
L & S Bearing Co 6 S Pennsylvania Ave Oklahoma City Okla
McGill Mfg Co 909 N Lafayette St Valparaiso Ind
Majestic Bearing Div of Continental Bearings Corp 2515 S Wabash Ave Chicago 16 Ill
Marlin-Rockwell Corp 402 Chandler St Jamestown N Y "M-R-C"
Master Parts Div Airtex Products Inc Fairfield Ill
Motor Master Products Corp PO Box 278 Defiance Ohio
New Departure Div General Motors Corp 269 N Main St Bristol Conn
Nice Ball Bearing Co 30th St & Hunting Park Ave Philadelphia 40 Pa
Norma-Hoffmann Bearings Corp Hamilton Ave Stamford Conn
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa "SKF" & "Hess Bright"
Schatz Mfg Co Poughkeepsie N Y
Split Ballbearing Div of MPB Inc Lebanon N H
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill "Sealmaster"
Thomson Industries Inc 1029 Plandome Rd Manhasset N Y (Linear)

**TORRINGTON CO 59 Field St Torrington Conn**

Wagner Mfg Co E R 4611 N 32nd St Milwaukee 16 Wis

**BEARINGS, BRONZE — See Bearings and Bushings, Bronze and Bronze-Backed**

## BEARINGS, Clutch Throwout

Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill

**AETNA BALL & ROLLER BEARING CO Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill (Ball)**

American Ball Bearing Corp 70 Flushing Ave Brooklyn N Y "ABC"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Automotive Thrust Bearings Corp 4634 Parker Ave Chicago 39 Ill "ATB"
Bearings Co of America Div of Federal-Mogul-Bower Bearings Inc 501 Harrisburg Ave Lancaster Pa "BCA"
Green Ball Bearing Co 9518 Cassius Ave Cleveland 5 Ohio
L & S Bearing Co 6 S Pennsylvania Ave Oklahoma City Okla
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Nice Ball Bearing Co 30th St & Hunting Park Ave Philadelphia 40 Pa
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Preferred Electric Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Pure Carbon Co 441 Hall Ave St Marys Pa "Purebon"
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa "Hess Bright"
Schatz Mfg Co Poughkeepsie N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

**BEARINGS, METALLIC POWDER — See Parts, Metallic Powder**

**BEARINGS, NEEDLE ROLLER—See Bearings, Roller (Needle)**

## BEARINGS, Pillow Block

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill (Babbitted ball and roller) "Link-Belt" "JPS"

**BEARINGS, PLASTIC — See Bearings and Bushings, Plastic**

## BEARINGS, Roller

**(See also Bearings, Roller, Tapered)**

**AETNA BALL & ROLLER BEARING CO Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill**

American Ball Bearing Corp 70 Flushing Ave Brooklyn N Y "ABC"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Ball & Roller Bearing Co 22 Maple Ave Danbury Conn "B&RB"

**BOWER ROLLER BEARING Div Federal-Mogul-Bower Bearings Inc 3040 Hart Ave Detroit 14 Mich**

Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio (Assemblies)
Geneva Metal Wheel Co 191 Factory Row Geneva Ohio
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Gwilliam Co 360 Furman St Brooklyn 1 N Y
Hoover Ball & Bearing Co. Bearing Div Ann Arbor Mich

**HYATT BEARINGS Div General Motors Corp Middlesex St Harrison N J**

International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Kaydon Engineering Corp Muskegon Mich
L & S Bearing Co 6 S Pennsylvania Ave Oklahoma City Okla
McGill Mfg Co 909 N Lafayette St Valpariso Ind
Majestic Bearing Div of Continental Bearings Corp 2515 S Wabash Ave Chicago 16 Ill
Marlin-Rockwell Corp 402 Chandler St Jamestown N Y "M-R-C"
Norma-Hoffmann Bearing Corp Hamilton Ave Stamford Conn
Orange Roller Bearing Co 557 Main St Orange N J
Roller Bearing Co of America Sullivan Way West Trenton N J "R B C"
Rollway Bearing Co 541 Seymour St Syracuse 4 N Y
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa "Hess-Bright" (Also cylindrical and spherical)
Split Ballbearing Div of MPB Inc Lebanon N H

**TIMKEN ROLLER BEARING CO 1835 Dueber Ave S W Canton 6 Ohio**

**TORRINGTON CO 59 Field St Torrington Conn**

Tyson Bearing Co Div of SKF Industries Inc 1339 Duncan St S W Massillon Ohio

## BEARINGS, Roller (Needle)

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Kaydon Engineering Corp Muskegon Mich "Thin-Shell"
McGill Mfg Co 909 N Lafayette St Valpariso Ind "Cagerol" "Guiderol" "Mutirol" "Camrol"

**NADELLA 133 Blvd National Rueil-Malmaison France (Thrust)**

Orange Roller Bearing Co 557 Main St Orange N J

**TORRINGTON CO 59 Field St Torrington Conn**

## BEARINGS, Roller, Tapered (Auto)

American Ball Bearing Corp 70 Flushing Ave Brooklyn N Y "ABC"

**BOWER ROLLER BEARING Div Federal-Mogul-Bower Bearings Inc 3040 Hart Ave Detroit 14 Mich**

**HYATT BEARINGS Div General Motors Corp Middlesex St Harrison N J**

SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa

**TIMKEN ROLLER BEARING CO 1835 Dueber Ave S W Canton 6 Ohio**

**TORRINGTON CO 59 Field St Torrington Conn**

Tyson Bearing Co Div of SKF Industries Inc 1339 Duncan St S W Massillon Ohio

## BEARINGS, Shaft, Oilless (Industrial)

Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich "Oilite"
Bound Brook Oil-Less Bearings Co Lincoln Blvd Bound Brook N J
Bronze Bearings Inc 340 North Ave E Cranford N J

**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**

Gatke Corp 228 N La Salle St Chicago 1 Ill "Gatke Grafitex"
Johnson Bronze Co 510 S Mill St New Castle Pa "Ledaloyl"
Keystone Carbon Co 1935 State St St Marys Pa "Selflube" (Porous bronze iron and stainless steel)
Randall Graphite Bearings Inc Greenlawn & Lake Sts Lima Ohio
Wakefield Bearing Corp 29 Foundry St Wakefield Mass

**BEARINGS THRUST—See Bearings, Ball; also Bearings, Roller**

## BEARINGS and BUSHINGS, Aluminum

Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich

**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**

**FEDERAL-MOGUL Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich "Federaloy"**

Fobert & Co P J 1720 Cloverfield Blvd Santa Monica Calif
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis 10 Mo (Bearings)
Pioneer Motor Bearing Co 116 Beacon St South San Francisco Calif

## BEARINGS and BUSHINGS, Bronze and Bronze-Backed

Aluminum Industries Inc 3670 Work Rd Cincinnati 11 Ohio "Permite" (Bronze bushings)
American Motor Products Co Fond du Lac Wis "Ampco" (Bronze bushings)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y (Bronze bushings)
Bearium Metals Corp Mill & Commercial Sts Rochester 14 N Y (Bronze)
Beckett Bronze Co 20th & S Walnut Sts Muncie Ind (Bronze bushings)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass "Bear-N-Bronz" (Bronze bearings)
Bronze Bearings Inc 340 North Ave E Cranford N J (Bronze)
Buckeye Brass & Mfg Co 6410 Hawthorne Ave Cleveland 3 Ohio (Bronze)
Bunting Brass & Bronze Co 715 Spencer St Toledo 9 Ohio (Bronze bushings)
Burlington Brass Works P O Box 388 Burlington Wis (Bronze bushings)
Cannon Bronze Corp Keithsburg Ill (Special thrust bearings; special bushings)
Circle Z RFD #2 Pomfret Center Conn (Bronze bushings)
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio (Bronze bushings)

**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**

Detroit Aluminum & Brass Corp 3975 Christopher Ave Detroit 11 Mich (Bronze-backed bearings)
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko" (Generator, starter and distributor bronze bushings)

**FEDERAL-MOGUL Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich "Federaloy" (Bronze)**

Fobert & Co P J 1720 Cloverfield Blvd Santa Monica Calif (Bronze-backed bearings)
Grand Haven Brass Foundry 230 N Hopkins St Grand Haven Mich (Bronze bushings)
Guaranteed Parts Co Seneca Falls N Y (Generator and starter bronze bushings)
Johnson Bronze Co 510 S Mill St New Castle Pa (Bronze bushings)
Keystone Carbon Co 1935 State St St Marys Pa "Selflube" (Bronze bushings)

## BEARINGS and BUSHINGS, Bronze and Bronze-Backed—continued

McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo (Bronze-backed bearings)
Markey Bronze Bushing Co Delta Ohio (Bronze)
Moccasin Bushing Co 2000 Chestnut St Chattanooga Tenn (Bronze bushings)
Pioneer Motor Bearing Co 116 Beacon St South San Francisco 9 Calif (Babbitt lined bronze-backed)
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa (Bronze bushings)
Randall Graphite Bearings Inc Greenlaw & Lake Sts Lima Ohio (Bronze bearings)
Shenango Furnace Co Centrifugal Cast Products Div Dover Ohio (Bronze)
Standard Brass Works 1810 W. St Paul Ave Milwaukee Wis (Bronze bushings)
Superior Kendrick Bearings Inc 312 S Crawford St Detroit 17 Mich (Bronze)
True Alloys Inc 284 S Summit St Detroit 9 Mich (Bronze bushings)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y (Bronze bushings)
Wagner Mfg Co E R 4611 N 32nd St Milwaukee 16 Wis (Bronze bushings)
Wakefield Bearing Corp 29 Foundry St Wakefield Mass "Coprex" (Bronze bushings)
Wheeling Bronze Casting Co 36th & McColloch Sts Wheeling W. Va (Bronze bushings)

**BEARINGS and BUSHINGS, BRONZE-BACKED—See Bearings and Bushings, Bronze and Bronze-Backed**

## BEARINGS and BUSHINGS, Die Cast, Babbitt, etc.

Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio
Detroit Aluminum & Brass Corp 3975 Christopher Ave Detroit 11 Mich
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo (Bearings)
Mallory & Co., P. R. 3029 E. Washington St Indianapolis Ind
National Molded Products Inc 40 S St Marys St Marys Pa
Pioneer Motor Bearing Co 116 Beacon St South San Francisco Calif

## BEARINGS and BUSHINGS, Plastic

Danielson Mfg Co Danielson Conn "Danco" (Nylon)
**GARLOCK INC 402 Main St Palmyra N Y (Teflon bearings)**
Grey Rock Div of Raybestos-Manhattan Inc Manheim Pa "Pyrotex" (Bushings for brake camshafts)
Polymer Corp 2120 Fairmont Ave Reading Pa "Polypenco" (Nylon)
Thompson Industries Inc 1029 Plandome Rd Manhasset N Y "Nylined" (Nylon bearings)
Tri-Point Plastics Inc 175 I W Willets Rd Albertson L I N Y "TSI" (Teflon rods and tubes)

## BEARINGS and BUSHINGS, Rubber Backed

Clevite Harris Products Inc Lockwood Rd Milan Ohio "Clevebloc" "Silentbloc"

## BEARINGS and BUSHINGS, Self-Lubricating (Auto)

**(Impregnated wood, graphite bronze or porous bronze)**

Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich "Oilite" (Bronze and steel)
Bearium Metals Corp Mill & Commercial Sts Rochester 14 N Y
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass "Bost-Bronz"
Bound Brook Oil-Less Bearing Co Lincoln Blvd Bound Brook N J ("Powdiron" Porous iron; "Compo" porous bronze; "Bound Brook" graphited-bronze)
Buckeye Brass & Mfg Co 6410 Hawthorne Ave Cleveland 3 Ohio
Bunting Brass & Bronze Co., 715 Spencer St Toledo 9 Ohio
Carbone Corp Myrtle Ave Boonton N J "Carbolube"
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**
Detroit Sintered Metals Corp 715 Spencer St Toledo 1 Ohio (Porous bronze porous iron-copper & porous iron)
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill
Gatke Corp 228 N La Salle St Chicago 1 Ill "Gatke Grafitex"
International Powder Metallurgy Co 439 W Main St Ridgway Pa "Autolube"
Johnson Bronze Co 510 S Mill St New Castle Pa
Keystone Carbon Co 1935 State St St Marys Pa "Selflube"
Micro-Precision Div of Micromatic Hone Corp 1535 Grande Vista Ave Los Angeles 23 Calif "Fabroid" (Bearings)
National Molded Products Inc 40 S St Marys St St Marys Pa "Ductiloy" "Sintrloy" (Bronze)
O & S Bearing & Mfg Co 777 W 8 Mile Rd Whitmore Lake Mich "Neveroil"
Paramount Oilless Bearing Co 99 Hope Ave Worcester 3 Mass "Pobco" (Wood)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Pure Carbon Co 441 Hall Ave St Marys Pa "Purebon"
Randall Graphite Bearings Inc Greenlawn & Lake St Lima Ohio
United States Graphite Co 1621 Holland Ave Saginaw Mich "Gramix" "Graphitar"
Wakefield Bearing Corp 29 Foundry St Wakefield Mass "Graphex" "Woodex"

## BEARINGS and BUSHINGS, Steel-Backed

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Aluminum lined)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich "Bohnalite"
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio "Clevite 77" "Bimetal" "Trimetal"
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**
Detroit Aluminum & Brass Corp 3975 Christopher Ave Detroit 11 Mich (Bearings)
Dura-Bond Bearing Co 3201 Ash St Palo Alto Calif (Babbitt lined bearings)
**FEDERAL-MOGUL Div Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich "Federaloy"**
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Johnson Bronze Co 510 S Mill St New Castle Pa
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo (Bearings)
Pioneer Motor Bearing Co 116 Beacon St South San Francisco 9 Calif (Babbitt lined)
Toledo Steel Products Div of Thompson Ramo Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio (Engine bearings)

## BELLOWS, Metallic

Barth Corp 12650 Brookpark Rd Cleveland 30 Ohio
Bridgeport Thermostat Div Robertshaw-Fulton Controls Co 115 Hill St Milford Conn (Thermostatic)
Bristol Co Waterbury 20 Conn
**FLEXONICS CORP Automotive Div 2021 S Latham St Memphis Tenn**
Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1 Tenn "Sylphon" (Thermostatic)
Standard-Thomson Corp Clifford Mfg Co Div 152 Grove St Waltham 54 Mass "Hydron"

**BELT FASTENERS—See Clamps, Belt; also Fasteners, Belt**

**BELT PULLEYS—See Pulleys, Belt**

## BELTING, Conveyor

Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich
Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio
Buffalo Weaving & Belting Co 260 Chandler St Buffalo 7 N Y
Cambridge Wire Cloth Co Cambridge Md (Woven wire)
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohrlastic" (Silicone coated fabric)
Cyclone Fence Dept American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio "Red Tag"
Goodrich B F Industrial Products Co 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio (Cleated)
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Industrial Heating Equip Co 3570 Fremont Pl Detroit 7 Mich
May-Fran Engrg Inc 1744 Clarkstone Rd Cleveland 12 Ohio (Hinged-type steel)
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio "Super-Excelo"
Scandura Inc 112 Keswick Ave Charlotte 1 N C

## BELTING, Fabric (Industrial)

Buffalo Weaving & Belting Co 260 Chandler St Buffalo 7 N Y
Dick Co R & J Totowa N J "Dickbelt" "Dixylon"
Hettrick Mfg Co Summit & Magnolia Sts Toledo Ohio "Hetmaco" "Hotop" "Malabar" "Super Hotop"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio "Challenger"
Reddaway Mfg Co 30 Euclid Ave Newark 5 N J "Camel Hair" "Camelcot" "Ruboil" "Durbar"
Russell Mfg Co Middletown Conn "Rusco"
Scandura Inc 112 Keswick Ave Charlotte 1 N C "Scandinavia" "Fentonia" "Scandilex"
Stevens Co A T 118 E 28th St New York 16 N Y "Stetex"
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond"
Wellington Sears Co 65 Worth St New York 13 N Y "Shawmut"

## BELTING, Flexible Wire (Industrial)

Colorado Fuel & Iron Corp Wickwire Spencer Steel Div 575 Madison Ave New York 22 N Y "CF&I-Wickwire"

## BELTING, Leather (Industrial)

American Leather Belting Co 1455 W Congress St Chicago Ill "American" "Albeco" "Wizard" "Holdtite" "Flex-Oak"
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill "Reliance" "Sea Lion" "Old Grizzly" "Imperial" "Sterling" "White Strip" "Flex-Oak"
Graton & Knight Co 356 Franklin St Worcester 4 Mass "Research"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Vim Tred"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper" "Miracle"
Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del "Tanastic" "Tannate" "Stronghold" "Gripotan" "Texalon" (Synthetic)
Warren Belting Co 356 Franklin St Worcester 4 Mass "Warren" "Wabeco"

## BELTING, Rubber (Industrial)

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Buffalo Weaving & Belting Co 260 Chandler St Buffalo 7 N Y
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Pacemaker" "Flexicord" "Fidelity"
Dayton Rubber Co 2342 Riverview Ave Dayton Ohio "Thorobred"
Dodge Mfg Corp 500 Main St Mishawaka Ind "Sealed Life"
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Hewlite" "Maltese Cross" "Monarch" "Conservo"
Lee Rubber & Tire Corp Conshohocken Pa
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Condor" "Manhattan"
Stevens Co A T 118 E 28th St New York 16 N Y
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## BELTING, V-Belt (Industrial)

Dayton Industrial Products Co 2001 N Janice Ave Melrose Park Ill
Dick Co R & J Totowa N J "Dixlink"
Gates Rubber Co 999 S Broadway Denver 17 Colo
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"

## BELTS, Auto (Fan, Water Pump, Generator, etc.)

Crown Products Co 5277 S 77th St Ralston Neb
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex
Dayton Industrial Products Co Div Dayco Corp 2001 Janice Ave Melrose Park Ill "Dayton" "Dayton Cog-Belt"
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Firestone Industrial Products Co Noblesville Ind
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"

Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power"
Loreman Products 607 Pine Bluff Rd Salisbury Md
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper" "Miracle"
Raybestos-Manhattan Inc Equip Sales Div P O Box 1021 Bridgeport Conn "R/M"
Reeves Bros Inc 1071 Ave of The Americas New York 18 N Y "Vulcan"
Ridbo Laboratories Inc 211 E Harrison St Danville Ill (Fan)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## BELTS, Safety (Auto and Truck)

Alofs Mfg Co 345 32nd St S W Grand Rapids 8 Mich "Lyfe"
Auto-Crat Mfg Co a Div of B-N Corp 2425 San Fernando Rd Los Angeles 65 Calif
Buckles Co Harry 303 Greer St Sikeston Mo
Bullard Co E D 2680 Bridge Way Sausalito Calif "Bullard Retracto"
Fabric Sales Inc 97 Chestnut St Newark 5 N J
Hickok Mfg Co 850 St Paul St Rochester 1 N Y (Sole distributors American Safety Equipment Co 350 Fifth Ave N Y 1 N Y)
Hinson Mfg Co Westfield Ave & Menges St Waterloo Iowa
International Mfg Co 2512 Washington St Roxbury 19 Mass "Rayline"
Irving Air Chute Co 1315 Versailles Rd Lexington Ky "Irvin"
Narrow Fabric Co Reading Pa "Guardsman"
Rupert Parachute Co Wheeling Ill (Auto)
Russell Mfg Co E Main St Middletown Conn "Aero-Car"
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Southern Weaving Co 4 Evans St Greenville S C
Sparton Automotive Div of Sparton Corp Jackson Mich "Karbelts"
Stebco Industries Inc 1401 W Jackson Blvd Chicago 7 Ill "Sav-A-Life"
Sturges Mfg Co 2030 Sunset Ave Utica 4 N Y
Thomas Co R M 2019 E Willard St Muncie Ind
Wilson Co 959 Commonwealth Ave Boston Mass

## BELTS, Timing

**MORSE CHAIN & CO Ithaca N Y**

## BELTS or BANDS, Endless Abrasive (Industrial)

Armour Alliance Industries 16123 Armour St N E Alliance Ohio
Behr-Manning Corp 6118 Howe St Troy N Y "Adalox" "Bear" "Durite" "Metalite" "Resinall" "Resinized" "Speed - Wet" "Spiraband" "Spirabelt" "Uniflow"
Cleveland Container Co Abrasive Div 3571 W 62nd St Cleveland 2 Ohio "Nolap" (Sole distributors Carborundum Co Buffalo Ave Niagara Falls N Y)
Clover Mfg Co 327 Main St Norwalk Conn "Smooth-Run"
DoAll Co 254 N Laurel Ave Des Plaines Ill
Field Abrasive Mfg Co 1303 Stanley Ave Dayton 4 Ohio "TruCut" (Bands)
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3M"
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill "Colossus"
Stevens Co A T 113 E 29th St New York 16 N Y

**BENCH CENTERS—See Centers, Bench**

**BENCHES, ENGINE and ELECTRICAL TEST—See Analyzers, Engine and Electrical Equipment; also Stands, Electric Test**

## BENCHES, Work

**BAY PRODUCTS Div American Metal Works Inc 1835 W Cambria St Philadelphia 32 Pa**

**BENCHES, WORK (PORTABLE) — See Stands, Portable Tool & Parts**

**BENDER-CUTTER MACHINES — See Machines, Bender-Cutter (Compressed Air or Hand)**

## BENDERS, Angle (Hand)

Lewthwaite Machine Co T H 324 E 47th St New York 17 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill
Whitney Metal Tool Co 190 Forbes St Rockford Ill

## BENDERS, Tube

Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill "Erco"
Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Fairmount Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio
Hein-Werner Corp 1200 National Ave Waukesha Wis "Hein-Werner Tal"
Imperial Eastman Corp 6300 W Howard St Chicago 48 Ill "Blue Dot" "Imperial"
Leonard Precision Products Co 9200 Bolsa Ave Santa Ana Calif "Leonard-Douglas"
Lidseen of North Carolina Inc 1000 First St Hayesville N C "Chicago" (Portable machine)
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill
Pines Engrg Co 601 Walnut St Aurora Ill
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich (Power)
Toledo Pipe Threading Machine Co PO Box 1678 Toledo 3 Ohio
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind
Williams White & Co 3rd Av & 8th St Moline Ill

**BENDING MACHINES—See Machines, Bending**

**BENDING PRESSES—See Presses, Bending**

## BENDINGS, Tubular

American Tube Bending Co 5 Lawrence St New Haven 8 Conn
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Detroit Tube Products Co 304 S Junction Ave Detroit 9 Mich
Mueller Brass Co 1925 Lapeer Ave Fort Huron Mich
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill
Steel and Tubes Div Republic Steel Corp 224 E 131st St Cleveland 8 Ohio
Tube Manifold Corp 415 Bryant St North Tonawanda N Y
Yoder Co 5510 Walworth Ave Cleveland 2 Ohio

**BERYLLIUM FORGINGS—See Forgings, Beryllium**

**BEVELING MACHINES, GLASS — See Machines, Glass Beveling and Grinding**

## BI-METALS, Thermostatic

Chace Co W M 1600 Beard Ave Detroit Mich
General Plate Div of Metals & Controls Corp 54 Forest St Attleboro Mass "Truflex"
Wilson Co H A 2655 U S Route 22 Union N J "Wilco" "Morflex"

## BINDERS, Panel (Steel or Composite)

**(Foundation stiffeners with means provided for fastening foundations to doors)**

Randall Co 5000 Spring Grove Ave Cincinnati Ohio

## BINDINGS, Upholstery

Backstay Welt Co Oak & Howard Sts Union City Ind "Hidem"
Brockton Stay Co 24 Essex St Haverhill Mass "Stayco"
Fox Edge Co 1951 Lakeview Ave Lowell Mass "Fox" "Foxtissue" "Foxkraft" "Foxflex" (Welting cord: "Foxtape" seat cover)
Hope Webbing Co P O Box 1495 Providence 1 R I
National Plastic Products Co Odenton Md "Wynene"
Supreme Mfg Co 7017 20th Ave Brooklyn N Y "Hidem Welt"
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind
Union Welt Corp 511 S Sangamon St Chicago 7 Ill "Hidem" "Wire-On"
Vogt Mfg Co 100 Fernwood Ave Rochester 21 N Y "Voplex"

## BINS, Parts Storage

Akro-Mils Inc 820 E Market St Akron 5 Ohio "E-Z Find Full-Vue" "Handy" "Haz-Bin" "Swing-Bin" "Akro-Mils" "Nifty Knicknack" "A-M"
Bathey Mfg Co 100 S Mill St Plymouth Mich

**BAY PRODUCTS Div American Metal Works Inc 1835 W Cambria St Philadelphia 32 Pa (Steel)**

Berger Div Republic Steel Corp 1038 Belden Ave N E Canton 5 Ohio "Flexi-Bilt"
Bernard Franklin Co Hedley & Bath Sts Philadelphia 37 Pa "BFC"
Borroughs Mfg Co 3002 N Burdick St Kalamazoo Mich "Flexi-Bins" & "Handee-Andee"
DeLuxe Metal Furniture Co Struthers St Warren Pa
Equipto Div Aurora Equipment Co Prairie St at Cleveland Ave Aurora Ill
Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"
Fort Steuben Metal Products Co Follansbee W Va
Frick-Gallagher Mfg Co 200 W Second St Wellston Ohio "F G M Quick Bilt" (Steel)
Frontier Mfg Co 11200 Harry Hines Bldg Dallas Tex
Heller & Co W C 1907 Wabash Ave Montpelier Ohio
Lyon Metal Products Inc 609 Monroe Ave Aurora Ill
Midland Mfg Inc 1100 S McComas St Wichita 12 Kans (Steel)
Neiman Steel Equipment Co 2960 E Venango St Philadelphia 34 Pa
Renie Metal Products Corp P O Box 344 Mansfield Ohio "Rempco"
Supreme Steel Equipment Co 53rd St & First Ave Brooklyn 32 N Y
Union Metal Mfg Co 1432 Maple Ave N E Canton 5 Ohio

## BITS, Screwdriving

Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass

## BLADES, Metal Slitting and Screw Slotting

Bethlehem Steel Co Bethlehem Pa
Circular Tool Co 765 Allens Ave Providence R I "Circle R"
Cowles Tool Co 2086 W 110th St Cleveland Ohio
Handicraft Tools Inc 48-41 Van Dam St Long Island City 1 N Y "X-acto" (Metal slitting)

**HEPPENSTALL CO 4620 Hatfield St Pittsburgh 1 Pa "Kleenkut"**

Hill Acme Co Cleveland Knife Div 1201 W 65th St Cleveland 2 Ohio "Peerless" "Century" & "Standard" (Metal slitting)
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass (Screw slotting)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Screw slotting)
Ohio Knife Co Dreman Ave & B&O RR Cincinnati 23 Ohio
Pratt & Whitney Div Niles-Bement-Pond Co Charter Oak Blvd West Hartford Conn
Reltool Corp 4500 W Burnham St Milwaukee 46 Wis
Simonds Saw & Steel Co 470 Main St Fitchburg Mass

## BLADES, Saw (Band)

American Saw & Mfg Co 67 Boylston St Springfield 1 Mass "Lenox"
Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 25 Ind "Silver Steel"
Capewell Mfg Co 60 Governor St Hartford 2 Conn "Speed Band" "Lo-Carb" "Technite" "Capewell"
Diamond Saw Works Inc Chaffee N Y "Sterling" & "Super Sterling"
Disston Div H K Porter Co Unruh & Milnor Sts Tacony Philadelphia 35 Pa
DoAll Co 254 N Laurel Ave Des Plaines Ill
Foster Mfg Co 287 Delaware Ave Buffalo 2 N Y

## BLADES, Saw (Band)—continued

Griffin Co G W 93 Memorial St Franklin N H (Sole distributors John H Graham & Co 105 Duane St New York 8 N Y)
Heller Tool Co Heller Dr Newcomerstown Ohio "Nucut"
Lippert Saw Co E T 608 Lincoln Ave (Millvale) Pittsburgh 9 Pa
Millers Falls Co 57 Wells St Greenfield Mass
Napier Saw Works 22 Cottage St Middletown N Y "Quality"
Nicholson File Co Providence 1 R I
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Spartan Saw Works Inc 152 Fisk Ave Springfield 7 Mass
Starrett Co L S 1-165 Crescent St Athol Mass
Thompson & Son Co Henry G 277 Chapel St New Haven 5 Conn "Milford"
Victor Saw Works 22 Cottage St Middletown N Y

## BLADES, Saw (Circular)

Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 25 Ind "Silver Steel"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Chicago Saw Inc 6137 S Oak Park St Chicago 9 Ill "Chicago" "Emblem"
Circular Tool Co 765 Allens Ave Providence R I "Circle R"
Cowles Tool Co 2086 W 110th St Cleveland Ohio
Disston Div H K Porter Co Unruh & Milnor Sts Tacony Philadelphia 35 Pa
Ideal Industries Inc 1014 Park Ave Sycamore Ill (Commutator)
Lippert Saw Co E T 608 Lincoln Ave (Millvale) Pittsburgh 9 Pa
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Mica undercutting)
Meyers Co W F 1017 14th St Bedford Ind "Meyco"
Motch & Merryweather Machinery Co 1250 E 222nd St Cleveland 7 Ohio "Triple Chip"
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Simonds Saw & Steel Co 470 Main St Fitchburg Mass "Simonds Red Streak"
Willey's Carbide Tool Co., 1340 W Vernon Highway Detroit 1 Mich

## BLADES, Saw (Hack)

American Saw & Mfg Co 67 Boylston St Springfield 1 Mass "Lenox"
Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 25 Ind "Silver Steel" "Silver Streaks"
Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio
Capewell Mfg Co 60 Governor St Hartford 2 Conn "Capewell" "Dafile" "Flex - tung" "Hard-tung" "Safetech"
Clemson Bros 22 Cottage St Middletown N Y "Star"
Diamond Saw Works Inc Chaffee N Y "Sterling" & "Super Sterling"
Disston Div H K Porter Co Unruh & Milnor Sts Tacony Philadelphia 35 Pa
DoAll Co 254 N Laurel Ave Des Plaines Ill
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill "Duro-Chrome"
Forsberg Mfg Co 125 Seaview Ave Bridgeport Conn "Whale"
Griffin Co G W 93 Memorial St Franklin N H (Sole distributors John H Graham & Co 105 Duane St New York 8 N Y)
Heller Tool Co Heller Dr Newcomerstown Ohio "Nucut"
K-D Mfg Co 526 N Plum St Lancaster Pa
Millers Falls Co 57 Wells Greenfield Mass "Blu-Flex" "Millers Falls" "Blu-Mol" "Jet Edge" & "Tuf-Flex"
Napier Saw Works 22 Cottage St Middletown N Y "Quality"
New Britain Machine Co Hand Tools Div South St New Britain Con "Blackhawk" "New Britain"
Nicholson File Co Providence 1 R I "Black Diamond" "Nicholson"
Simmonds Saw & Steel Co 470 Main St Fitchburg Mass "Red End" & "Weld-Edge"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Spartan Saw Works Inc 152 Fisk Ave Springfield 7 Mass
Starrett Co L S 1 Crescent St Athol Mass (Power and hand)
Thompson & Son Co Henry G 277 Chapel St New Haven 5 Conn "Milford"
Victor Saw Works 22 Cottage St Middletown N Y

## BLADES, Saw (Hole)

Misener Mfg Co 202 Walton St Syracuse 2 N Y

## BLAST CLEANING APPARATUS

Lewis Welding & Engrg Corp 100 Northfield Rd Bedford Ohio
Macleod Co Box 452 Sharonville Ohio
Pangborn Corp 200 Pangborn Blvd Hagerstown Md "Pangborn Rotoblast"
Ruemelin Mfg Co 3860 N Palmer St Milwaukee Wis
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio "Slyblast"
Techline Div of Wheelabrator Corp 1466 Ave V Vicksburg Mich "Liquamatte"
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn "Liqui-Breez"
Vapor Blast Mfg Co 3025 W Atkinson Ave Milwaukee 9 Wis
Wheelabrator Corp 1466 S Byrkit St Mishawaka Ind
White Industrial Div S S 10 E 40th St N Y 16 N Y

**BLOCKS, Brake—See Lining, Brake**

## BLOCKS, Cylinder

Campbell Wyant & Cannon Foundry Co Muskegon Mich

## BLOCKS, Die

**HEPPENSTALL CO 4620 Hatfield St Pittsburgh 1 Pa "Hardtem"**

## BLOCKS, Gage

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I "Johansson" "C E Johansson "Jo-Block" "Thrift Block"
DoAll Co 254 N Laurel Ave Des Plaines Ill
Fonda Gage Co 200 Henry St Stamford Conn
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Hoke"
Scherr-Tumico 200 Lafayette St New York 12 N Y "Scherr Ultra Chex"
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I
Van Keuren Co 176 Waltham St Watertown Mass
Webber Gage Co 12500 Triskett Rd Cleveland 11 Ohio

## BLOCKS or HOISTS, Chain

(See also Cranes, Portable; also Hoists)

Chester Hoist Div of National Screw & Mfg Co Lisbon Ohio "Chester"
Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y "Cyclone" "Blue-Boy"
Cleveland Crane & Engineering Co 5866 E 283rd St Wickliffe Ohio "Cleveland Tramrail"
Coffing Hoist Div Duff-Norton Co 800 Walter St Danville Ill "Challenger" "Mighty Midget" "Safety Pull" "Super Power"
Conco Engrg Works Inc Mendota Ill
Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa "Packet" "Peerless"
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich "Budgit"
Ohio Hoist Mfg Co 321 S Beaver St Lisbon Ohio
Reading Crane & Hoist Corp 2140 Adams St Reading Pa
Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio "R & M"
Round & Son David Box 198 Cleveland 39 Ohio "Auto-Bloc" "Weston" "Superior" "Little Wizard" "Alumilift"
Wright Hoist Div of American Chain & Cable Co York Pa
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

**BLOW GUNS—See Nozzles, Air**

## BLOW PIPES, Brazing, Welding and Cutting

American Gas Furnace Co Lafayette Spring & Elizabeth Sts Elizabeth N J (Brazing)
Dixon Inc William 32 E Kinney St Newark 1 N J (Brazing)
Linde Co 270 Park Ave New York 17 N Y "Oxweld" "Purox" (Oxy-acetylene)
National Welding Equipment Co 218 Fremont St San Francisco 5 Calif
Tolman Mfg Co 19 W Third St (South Boston) Boston 27 Mass

## BLOWERS, Heat (Electric)

(For thawing gas or oil lines, melting grease, etc.)

Breuer Electric Mfg Co 5100 Ravenswood Ave Chicago 40 Ill "Tornado"
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Axivane"
Mack Products Co 15 Putnam St Winthrop Mass
United Shoe Machinery Corp 140 Federal St Boston 7 Mass

## BLOWERS, Pressure

Allis-Chalmers Mfg Co Milwaukee 1 Wis
American Standard Industrial Div Detroit 32 Mich
**BROOKSIDE CORP McCordsville Ind**
Champion Blower & Forge Co Harrisburg Ave & Charlotte St Lancaster Pa
Clarage Fan Co North & Porter Sts Kalamazoo Mich
Eclipse Fuel Engineering Co 1111 Buchanan St Rockford Ill
Fisher Furnace Div of Lindberg Engineering Co 2476 W Hubbard St Chicago Ill "Lindberg-Fisher"
Fuller Co 124 Bridge St Catasauqua Pa "Sutorbilt"
Ideal Industries Inc 1014 Park Ave Sycamore Ill
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Axivane"
Leiman Bros Inc 207 Christie St Newark 5 N J
M-D Blowers Inc 100 Fourth St Racine Wis
Mahr Mfg Co 7444 Girard Ave S Minneapolis 23 Minn
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Portable electric)
North American Mfg Co 4455 E 71st St Cleveland 5 Ohio
Pioneer Air Compressor Co 120 Chambers St New York 7 N Y
Premier Co 755 Woodlawn Ave St Paul 16 Minn
Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Blowers"
Spencer Turbine Co 486 New Park Ave Hartford 6 Conn
Standard Electric Mfg Co Haddon Ave West Berlin N J
Westinghouse Electric Corp Sturtevant Div 15 Damon St Hyde Park Boston 36 Mass

## BLUE, Mechanics'

**DYKEM CO 2301 N 11th St St Louis 6 Mo**

**BOARDS, TOOL CONTROL—See Systems, Machine Tool Control**

## BODIES, Commercial

**BUDD CO 2450 Hunting Park Ave Philadelphia 32 Pa**

## BODIES, Passenger Car

Almquist Engrg Co Milford Pa (Plastic sport)
**BUDD CO 2450 Hunting Park Ave Philadelphia 32 Pa**
Checker Motors Corp 2016 N Pitcher St Kalamazoo Mich
Lunn Laminates Inc Oakwood Rd & W 11th St Huntington Station N Y (Plastic)

## BODIES, Station Wagon

Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich
Jannell & Son Body Co Cumberland Hill Rd Woonsocket R I
Sherman & Co Earl 2526 Wood St Oakland 7 Calif "Esco"
Soffe & Son Morris 170 W Berks St Philadelphia 22 Pa

**BODIES, TANK — See Tanks, Trailer and Truck Body**

**BODY FILLING SOLDER—See Solder**

**BODY HOISTS—See Hoists, Truck Body**

**BODY IRONS — See Hardware, Automobile and Truck Body**

**BODY LINING—See Lining Body or Frame**

**BODY MOUNTINGS, RUBBER INSULATED —See Mountings, Rubber Insulated**

**BODY PARTS—See Parts Bus Body (Steel); Parts Stake Body (Steel); Parts, Truck Body (Plastic); Parts, Auto Body (Plastic); Parts Truck Body (Steel); Rails, Rub (Pressed Steel)**

**BODY SILENCING INSULATION — See Insulation, Heat & Sound (Liquid)**

**BOLT EXTRACTORS — See Extractors, Bolt and Screw**

**BOLT SETTERS — See Setters, Stud, Nut, Bolt and Lag Screw**

**BOLT THREADING MACHINES — See Machines, Thread Cutting**

**BOLT AND NUT SEALANTS—See Sealants, Bolt and Nut**

## BOLTS, Aircraft

Allmetal Screw Products Corp 821 Stewart Ave Garden City 1 N Y
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Cooper Precision Products Div Standard Pressed Steel Co 2701 S Harbor Blvd Santa Ana Calif

## BOLTS, Battery Hold Down

Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Ohio
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Loock & Co R J 343 N Gay St Baltimore Md
Murray Corp E Joppa Rd Towson 4 Md
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio

## BOLTS, Clip

Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Clark Bros Bolt Co Canal St Milldale 1 Conn
Haskell Mfg Co Wm H 24 Commerce St Pawtucket R I
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio

## BOLTS, Connecting Rod

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Brown Corp 213 Bellevue Ave Syracuse N Y
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Ohio
Federal-Mogul Service Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich
Ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Mac-It Parts Co Shippen & Liberty Sts Lancaster Pa
**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**
Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"

## BOLTS, Coupling

Buffalo Bolt Co North Tonawanda N Y
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Stanscrew"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill

## BOLTS, Eye

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Steel Co (P O Box 230) Sixth & Spring Sts Ellwood City Pa
Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Bethlehem Steel Co Bethlehem Pa
Buckeye Forging Co 9217 Miles Ave Cleveland 5 Ohio
Clark Bros Bolt Co Canal St Milldale 1 Conn
Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Ohio
Mechanics Tool & Forge Co Howard St Sabina 1 Ohio "Mac"
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Rockford Bolt & Steel Co 226 Mill St Rockford Ill
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Williams & Co J H 400 Vulcan St Buffalo 7 N Y "Vulcan"

**BOLTS, KING—See Pins, King**

## BOLTS, Lock

Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
**HUCK MFG CO 2480 Bellevue Ave Detroit 7 Mich "Huckbolt"**
Townsend Co Engineered Fasteners Div P O Box 70 Ellwood City Pa

## BOLTS, Machine and Carriage

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American - Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Bethlehem Steel Co Bethlehem Pa
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"
Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite"
Federal Screw Works 3401 Martin St Detroit 10 Mich
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Stanscrew"
Haydon Bolts Inc Adams Ave & Unity St Philadelphia 24 Pa
International Screw Co 9444 Roselawn Ave Detroit 4 Mich
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio "Buckeye" "Lamson"
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Lok-Thred" (Machine)**
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Rockford Bolt & Steel Co 226 Mill St Rockford Ill
Rockford Screw Products Co 2501 Ninth St Rockford Ill (Carriage)
Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Screw & Bolt Corp of America P O Box 1708 Pittsburgh 30 Pa
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Carriage)**
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Triplex Screw Co 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

**BOLTS, SELF-SEALING — See Screws and Bolts, Self-Sealing**

## BOLTS, Spring Center

American - Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Brown Corp 213 Bellevue Ave Syracuse N Y
Champ-Items Inc 6191 Maple Ave St Louis Mo
Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago Ill
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y
St Louis Screw & Bolt Co 69 N Broadway St Louis 15 Mo
Tuthill Spring Co 760 W Polk St Chicago Ill
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## BOLTS, Spring Shackle

**(Including plain bolts in addition to complete assemblies with oil or grease cups attached)**

Alloy Mfg Co 3207 S Shields Ave Chicago 17 Ill "Alco" "Alloy" "Quality Built"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Brown Corp 213 Bellevue Ave Syracuse N Y
Chicago Screw Co 2701 Washington Blvd Bellwood Ill
Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Metzger Welding Co 1652 Powers St Cincinnati Ohio
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Russell, Burdsall & Ward Bolt & Nut Co Port Chester N Y
Simmons Mfg Co Ashland Ohio
Thompson Products Motor Equipment Mfg Div Thompson Ramo Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Transit Parts Co 35700 Vine St Willoughby Ohio (For buses trucks and trailers)
Trayer Products Inc E Clinton St Elmira N Y

**BOLTS, STEERING KNUCKLE — See Pins, King**

**BOLTS, STEP—See Bolts, Machine and Carriage**

## BOLTS, Stove

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
American Screw Co 1670 W Main St Willimantic Conn
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Central Screw Co 3501 S Shields Ave Chicago 9 Ill
Clark Bros Bolt Co Canal St Milldale 1 Conn
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite"
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Lok-Thred" "Tuff-Tite"**
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco"
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Rockford Screw Products Co 2501 Ninth St Rockford Ill
Russell, Burdsall & Ward Bolt & Nut Co Port Chester N Y
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C**
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Triplex Screw Co 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio

## BOLTS, Tractor

Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio

**BONDING MACHINES, ADHESIVE — See Machines, Bonding (Adhesive)**

**BONDING OVENS—See Ovens, Brake Lining Bonding**

**BOOSTERS, BRAKE (VACUUM) — See Brakes, Vacuum Power (Auto, Truck and Bus)**

**BOOSTERS, STEERING GEAR — See Gears, Steering (Power Units Only)**

## BOOSTERS, Air to Hydraulic

Miller Fluid Power Div of Flick-Reedy Corp York & Thorndale Rds Bensonville Ill
**S-P MFG CORP 30201 Aurora Rd Solon Ohio**

## BOOTHS, Spraying (Enamel, Lacquer and Paint)

**BINKS MFG CO 3120 Carroll Ave Chicago 12 Ill**
Black Mfg Co 403 Penn St Baltimore 30 Md
Burdett Mfg Co 4920 S Monitor St Chicago 38 Ill
**CENTRI-SPRAY CORP 39001 Schoolcraft Rd Livonia Mich**
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
De Vilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich
Inland Mfg Co 1108 Jackson St Omaha 2 Nebr
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
**MAHON CO R C 6565 E Eight Mile Rd Detroit 34 Mich**
Paasche Airbrush Co 1909 Diversey Parkway Chicago 14 Ill
Spray Engineering Co 100 Cambridge St Burlington Mass "Spraco"
Young & Bertke Co 2212 Buck St Cincinnati 22 Ohio

## BORERS, Jig

Cleereman Machine Tool Corp 601 Elizabeth St Green Bay Wis (Sole distributors Jackson-Fotsch Co 7350 W Lawrence Ave Chicago 31 Ill)
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Fosdick Machine Tool Co Blue Rock & Apple Sts Cincinnati 23 Ohio "Fosdick" "Fosmatic"
Knight Machinery Co W B 3920 W Pine St St Louis 8 Mo
Moore Special Tool Co., 740 Union Ave., Bridgeport Conn
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn

**BORING BARS—See Bars, Boring (For Machines)**

**BORING HEADS—See Heads, Boring**

**BORING MACHINES—See Machines, Boring**

**BORING TOOLS—See Tools, Boring**

## BOXES and POTS, Annealing and Case Hardening

Bethlehem Steel Co Bethlehem Pa (Annealing pots)
Biggs Steel Fdry & Fabricating Co 1007 Bank St Akron 5 Ohio
Driver-Harris Co Harrison 5 N J "Nichrome"
Eclipse Fuel Engineering Co 1111 Buchanan St Rockford Ill
General Alloys Co 387 W First St Boston 27 Mass "X-ite"
Michigan-Standard Alloy Casting Co 1999 Guoin St Detroit 7 Mich "Misco"
Pressed Steel Co 705 N Pennsylvania Ave Wilkes-Barre Pa
Rolock Inc 1350 Kings Highway Fairfield Conn
Stanwood Corp 4819 Cortland St Chicago 39 Ill

## BOXES, Battery (Rubber)

**(For encasing cell jars)**

American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Richardson Co 2667 Lake St Melrose Park Ill "Im-Plast" "Permaplast" "Plastok" "Richelain"
Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts Trenton 4 N J (Rubber and plastic)

## BOXES, Gear

**(For transmission assemblies—see Transmissions, Auto)**

Arrow Gear Div of Motor Products Corp P O Box 547 Broken Arrow Okla
Chelsea Products Inc 21 Buchanan St Chelsea Mich
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio**
Dura Corp Paris Products Div Paris Ky (Tractor)
Warner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

## BOXES, Junction (Auto)

National Electric Products Corp 2 Gateway Center Pittsburgh 22 Pa "Autoflex"

## BOXES, Spare Parts

Gilbert Plastics Inc Boright Ave Kenilworth N J (Plastic)
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis (Metal)

## BOXES, Tiering (Fibre)

Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
Cutler Metal Products Co 1025 Line St Camden N J
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Kennett"

## BOXES, Tiering (Sheet Metal)

**BAY PRODUCTS Div American Metal Works Inc 1835 W Cambria St Philadelphia 32 Pa**
Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa "BFC"
Cutler Metal Products Co 1025 Line St Camden N J
Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"
Lyon Metal Products Inc 609 Monroe Ave Aurora Ill
Powell Pressed Steel Co Erie St Hubbard Ohio
Union Metal Mfg Co 1432 Maple Ave N E Canton 5 Ohio

## BOXES, Tote (Fibre)

Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
Convoy Inc 3424 Navarre Rd S W Canton Ohio
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Kennett" & "National"
Spaulding Fibre Co 310 Wheeler St Tonawanda N Y (Steel clad)

## BOXES, Tote (Metal)

**(Shop boxes and barrels)**

Bathey Mfg Co 100 S Mill St Plymouth Mich
Berger Div Republic Steel Corp 1038 Belden Ave N E Canton 5 Ohio
Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa "BFC"
Bethlehem Steel Co Bethlehem Pa
Cutler Metal Products Co 1025 Line St Camden N J
Durlach Can & Iron Works 325 Spring St N Y N Y
Equipto Div Aurora Equipment Co Prairie St at Cleveland Ave Aurora Ill
Kirk & Blum Mfg Co 3120 Forrer St Cincinnati 9 Ohio "K & B"
Lyon Metal Products Inc 609 Monroe Ave Aurora Ill
Mid-West Wire Products Co 2555 Fenkell Ave Detroit 38 Mich "Carryers"
P & C Hand Forged Tool Co Box 5926 Milwaukie Ore
Powell Pressed Steel Co Erie St Hubbard Ohio
Republic Steel Corp Pressed Steel Div 6100 Truscon Ave Cleveland 27 Ohio
Salem Tool Co 767 S Ellsworth Ave Salem Ohio
Schartow Iron Products Co Sattley Bldg Racine Wis "Sipco"
Sheet Metal Specialty Div of Follansbee Steel Corp State St Follansbee W Va
Tote System Inc 700 S Seventh St Beatrice Nebr
Union Metal Mfg Co 1432 Maple Ave N E Canton 5 Ohio
Union Steel Products Co Albion Mich "Palletainers"
Youngstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio

## BOXES, Tote (Plastic)

**LEWIS CO G B 426 Montgomery St Watertown Wis "Stack-N-Nest" "Lewis Plasti-box"**

## BOXES, Tote (Wood)

Backus Jr & Sons A Military at Connors St Port Huron Mich (Wood & wire)
Lewis Co G B 426 Montgomery St Watertown Wis (Wood & wire)

## BRACKETS, Fender (Truck)

Cutler Metal Products Co 1025 Line St Camden N J
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Servwell Pyramid"
Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio

## BRACKETS, Mirror

Anthes Force Oiler Co 20th St & Ave M Ft Madison Iowa
Delbar Products Inc 7th & Spruce Sts Perkasie Pa
Grote Mfg Co State Route 7 Madison Ind
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Monarch Tool & Machinery Co 3435 S Racine Ave Chicago 8 Ill
Norlipp Co 5926 S Lowe Ave Chicago 21 Ill
Prutsman Defrosto Mirrors Inc Ted 660 S Myers St Los Angeles 23 Calif "Defrosto"
Standard Mirror Co 141 Milton St Buffalo 10 N Y

**BRAKE BONDING COMPOUNDS—See Compounds, Brake Bonding**

**BRAKE BOOSTERS, Hydraulic—See Boosters, Brake (Hydraulic)**

**BRAKE CYLINDER CLAMPS (HYDRAULIC) —See Clamps, Brake Cylinder (Hydraulic)**

**BRAKE LINING OVENS—See Ovens, Molded Products**

**BRAKE PARTS and ATTACHMENTS**
**See following heads:**
**Adjusters, Brake Cable (Automatic)**
**Brakes, Vacuum Power**
**Cable, Brake Control**
**Controls, Brake**
**Controls, Brake (Trailer)**
**Drums, Brake**
**Fluid, Hydraulic Brake and Shock Absorber**
**Lining, Brake**
**Locks, Brake (Hill Holding)**
**Parts, Brake**
**Shoes, Brake**
**Signals, Low Air Pressure, Brake (Auto)**

## BRAKES, Air

Auto Specialties Mfg Co 643 Graves St St Joseph Mich "Ausco" (Disc)
**BENDIX - WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO 901 Cleveland Rd Elyria Ohio (Also accessory units for trucks and buses)**
**EATON MFG CO Axle Div 739 E 140th St Cleveland 10 Ohio (Truck)**
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Girling"
Hydro-Aire Div of Crane Co 3000 Winona Ave Burbank Calif "Hytrol"
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich**
**ROCKWELL - STANDARD CORP Brake Div P O Box 358 Ashtabula Ohio "Stopmaster"**
**SHULER AXLE CO 2901 S Second St Louisville 8 Ky (Truck)**
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

## BRAKES, Air-Hydraulic

**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind "Bendix-Air-Pak"**
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Girling"
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich**
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

## BRAKES, Compression Exhaust

Power Brake Equipment Co 1632 S E 11th Ave Portland 14 Ore "Williams"

## BRAKES, Eddy Current (Auto)

(For engines, cooling fans, generators, etc.)
**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic"**

## BRAKES, Electric (Auto and Truck)

Warner Electric Brake & Clutch Co Beloit Wis (Truck)

**BRAKES, ELECTRIC (TRAILER)—(See Brakes, Trailer**

## BRAKES, Emergency (Automatic)

Hydro-Aire Div of Crane Co 3000 Winona Ave Burbank Calif "Hytrol"
MGM Brakes Inc Redwood Highway Cloverdale Calif
Maxi Corp P O Box 3129 Terminal Annex Los Angeles 54 Calif "Maxibrake"

## BRAKES, Hydraulic

Auto Specialties Mfg Co 643 Graves St St Joseph Mich "Ausco" (Disc)
**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind "Duo-Servo" "Twinplex"**
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio (For GMC cars)**
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Girling"
Frank-Dewey Co 6481 Epworth St Detroit 10 Mich "Hydrease"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich**
Martin Co Glenn L Baltimore 3 Md
Minnesota Automotive Inc 1101 N Front St Mankato Minn
**ROCKWELL - STANDARD CORP Brake Div P O Box 358 Ashtabula Ohio "Stopmaster"**
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo ("Wagner Lockheed" [Licensees]; "Hi-Tork" For commercial vehicles)**

## BRAKES, Industrial

Eclipse Machine Div Bendix Corp Elmira N Y "Elmag" (Electro-magnetic)
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

## BRAKES, Liquid Cooled

**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo (For commercial vehicles)**

## BRAKES, Machine

Eaton Mfg Co Dynamatic Div 3122 14th Ave Kenosha Wis "Dyna-torq" (Magnetic friction)
**ROCKWELL - STANDARD CORP Brake Div P O Box 358 Ashtabula Ohio**

## BRAKES, Mechanical

American Chain & Cable Co Automotive & Aircraft Div 601 Stephenson Bldg Detroit 2 Mich "Tru-Stop" (Disc)
Auto Specialties Mfg Co 643 Graves St St Joseph Mich "Ausco" (Disc)
**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind "Duo-Servo" (Also auxiliary)**
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Neate"
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich**
**ROCKWELL - STANDARD CORP Brake Div P O Box 358 Ashtabula Ohio**
Shuler Axle Co 2901 S Second St Louisville 8 Ky
Warner Gear Div Borg-Warner Corp 1106 E Seymour St Muncie Ind

## BRAKES, Press

Bath Co Cyril 32400 Aurora Rd Solon Ohio
Cincinnati Shaper Co P O Box 111 Cincinnati 11 Ohio
Doelger & Kirsten Inc 3015 W Chambers St Milwaukee 10 Wis "Milwaukee"
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Service Machine Co 2310 W 78th St Chicago 20 Ill
**STEELWELD MACHINE Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio**
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago 19 Ill**

## BRAKES, Trailer

**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind "Bendix B-K" (Vacuum power)**
**BENDIX - WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO 901 Cleveland Rd Elyria Ohio**
Dico Co 200 S W 16th St Des Moines 5 Iowa "Surg-O-Matic"
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Girling" (Air-hydraulic and vacuum)
Hammer Blow Tool Co 602½ Third St Wausau Wis
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Cal "Kaloy" (Mechanical)
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich (Electric and vacuum power for house and utility trailers)**
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich (Air and vacuum)**
**SHULER AXLE CO 2901 S Second St Louisville 8 Ky (Mechanical vacuum or air)**
Spencer-Safford Loadcraft Inc Augusta Kans "Loadcraft"
Standard Forge & Axle Co P O Box 309 Montgomery 2 Ala (Vacuum or compressed air)
United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Titanic" (Hydraulic)
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis (Vacuum power)
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo (Compressed Air)**
Warner Electric Brake & Clutch Co Beloit Wis (Electric)

## BRAKES, Vacuum Power (Auto and Truck)

Airtex Automotive Div Airtex Products Inc 407 N Main St Fairfield Ill "Powr-Brake"
**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind "Bendix B-K" "Bendix Hydrovac"**
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Girling"
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich (Auto truck and bus)**
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich**
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis (Truck)

## BRASS and COPPER, Sheet, Rod and Ingot

(For tubing—see Tubing, Brass and Copper)
American Nickeloid Co Peru 34 Ill (Nickel and chrome plated or polished not plated brass in sheets and coils also nickel and chrome plated copper)
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn ("Anaconda"; "Tobin Bronze" rod bronze; "Anaconda" sheet and rod phosphor bronze; "Electro-Sheet" copper foil; "Formbrite" brass sheet and strip and wire; "Duraflex" phosphor bronze strip and wire)
Apollo Metal Works Inc Clearing Station Chicago 38 Ill (Nickel and chromium plated sheets and coils)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Ingot)
Beryllium Corp P O Box 1462 Reading Pa "Berylco" (Beryllium copper strip rod bar wire and ingot)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich (Brass)
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn (Brass rods and copper sheets)
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn (Sheet and rod)
Chicago Extruded Metals Co 1642 S 54th Ave Cicero 50 Ill (Brass rod)
Electric Materials Co Clay & Washington Sts North East Pa (Copper)
Federated Metals Div of American Smelting & Refining Co 120 Broadway New York 5 N Y (Rod and ingot)
Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn
Lewin-Mathes Co 12th & Chouteau Ave St Louis 2 Mo (Tube and rod)
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich (Rod)
North American Smelting Co Marine Terminal Wilmington Del (Ingot)
Plume & Atwood Mfg Co Main St Thomaston Conn (Brass strip or coil)
Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Riverside" (Phosphor bronze and beryllium copper in sheet rod strip and wire "Alloy" nickel clad copper in wire rod and strip)
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y (Sheet and rod)
River Smelting & Refining Co 4195 Bradley Rd Cleveland 1 Ohio "River RS" (Ingot)
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn (Sheet and rod)
Seymour Mfg Co 15 Franklin St Seymour Conn "Seymour" (Brass sheet strip and wire; "Elephant Brand" phosphor bronze strip rod and wire)

**BRAZING FURNACES—See Furnaces, Brazing**

**BRAZING FLUX—See Flux, Brazing, Welding and Soldering**

**BREAKER ARMS—See Arms, Breaker**

**BREAKER POINTS—See Points, Contact (Ignition)**

## BREAKERS, Circuit (Auto)

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Bulldog Electric Products Co 7610 Jos Campau Ave Detroit 32 Mich "Pushmatic"
Carter Parts Co 3401 W Madison St Skokie Ill "Imp"
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
E-T-A Products Co of America 6284 N Cicero Ave Chicago 46 Ill
Electric Autolite Co Toledo 1 Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill
Fasco Industries Inc 400 Davis St Rochester 2 N Y
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Heinemann Electric Co Pa Ave & Plum St Trenton 2 N J "Magnette" "Re-Cirk-it"
Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio
Littelfuse Inc 4757 Ravenswood Ave Des Plaines Ill
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Reynolds Mfg Co 1419 Alamo National Bldg San Antonio 5 Tex "Remco" (Automobile)
Spencer Div Metals & Controls Corp 34 Forest St Attleboro Mass "Klixon"
Square D Co Executive Plaza Park Ridge Ill
Tung-Sol Electric Inc 1 Summer Ave Newark 4 N J
Underwriters Safety Device Co 4642 N Lamon St Chicago 30 Ill "Short Stop"
Westinghouse Electric Corp Standard Control Div Beaver Pa
Westinghouse Electric Corp Switchgear Div East Pittsburgh Pa

**BREATHER CAPS — See Caps, Crankcase Breather**

## BROACHES

Apex Broach Co 6401 E Seven Mile Rd Detroit 34 Mich
Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich
Connecticut Broach & Machine Co 21 Pequot Ave New London Conn "Connecticut" "Durakeen"
Detroit Broach & Machine Co 950 S Rochester Rd Rochester Mich
Dixon Inc William 32 E Kinney St Newark 1 N J
Ex-Cello Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Continental"
Illinois Tool Wks Tool & Instrument Div 2501 N Keeler Ave Chicago Ill "Illinite"
Lapointe Machine Tool Co 34 Tower St Hudson Mass "Lapointe Hudson"
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Wing"
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
Pioneer Broach Co 6434 E Telegraph Rd Los Angeles 22 Calif
Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"
**SUNDSTRAND AMERICAN BROACH Div of Sundstrand Corp 415 W Huron St Ann Arbor Mich "American"**
Threadwell Tap & Die Co Greenfield Mass "Little Champ"
Willey's Carbide Tool Co 1340 W Vernon Highway Detroit 1 Mich

**BROACH GRINDING MACHINES—See Machines, Grinding (Broach)**

**BROACHING MACHINES—See Machines, Broaching**

**BROACHING TOOLS—See Broaches**

## BRONZE, Aluminum

Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn "Avialite" "Tempaloy"
Belmont Smelting & Refining Works, 326a Belmont Ave Brooklyn 7 N Y (Ingot)
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y
Wheeling Bronze Casting Co 36th & Mccolloch Sts Wheeling W Va "Wheelaloy" (Bar)

**BRONZE, BEARING—See Metals, Bearing**

**BRUSHES, AIR—See Sprayers, Paint, Varnish and Lacquer**

**BRUSHES, BUFFING (WIRE)—See Brushes, Rotary Wire**

## BRUSHES, File Cleaning

**OSBORN MFG CO 5401 Hamilton Ave N E Cleveland 14 Ohio**

## BRUSHES, Generator and Starter

**(Carbon, metal and woven wire)**

American Motor Products Co Fond du Lac Wis "Ampco"
Becker Brothers' Carbon Co 3450 S 52nd Ave Cicero 50 Ill "BBB"
Carbone Co Myrtle Ave Boonton N J
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind (Generator)
Echlin Mfg Co U S Route 1 Branford Conn
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
General Cable Co Naperville Ill
Guaranteed Parts Co Seneca Falls N Y "GP"
Holley Carburetor Co 1955 E Nine Mile Rd Warren Mich
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Keystone Carbon Co 1935 State St St Marys Pa
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Morganite Inc 3302 48th Ave Long Island City 1 N Y
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Pure Carbon Co 441 Hall Ave St Marys Pa
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorenson Mfg Co P 32-31 57th St Woodside 77 N Y
Speer Carbon Co St Marys Pa
Stackpole Carbon Co Stackpole St St Marys Pa
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## BRUSHES, Motor and Generator (Industrial)

General Cable Co Naperville Ill
Graphite Metallizing Corp 1083 Nepperhan Ave Yonkers 3 N Y "Graphalloy"
Keystone Carbon Co 1935 State St St Marys Pa "Equaload"
Morganite Inc 3302 48th Ave Long Island City 1 N Y
Pure Carbon Co 441 Hall Ave St Marys Pa
Stackpole Carbon Co Stackpole St St Marys Pa
United States Graphite Co 1621 Holland Ave Saginaw Mich

## BRUSHES, Rotary Wire

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Anderson Corp 1029 Southbridge St Worcester 10 Mass
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Dixon Inc William 32 E Kinney St Newark 1 N J
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"
Herold Mfg Co 3927 Clark Ave Cleveland 9 Ohio
Manufacturers Brush Co 12501 Elmwood Ave Cleveland Ohio "Sansom" "Advance" "Radko"
Master Power Corp 6225 Cockran Rd Solon 39 Ohio
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Brush Mfg Co 2236 N 30th St Milwaukee 45 Wis
Morris Co C W 10628 Cloverdale Ave Detroit 4 Mich
National Machine & Tool Co 4077 Page Ave Jackson Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"
Newark Brush Co Michigan Ave Kenilworth N J
Ohio Brush Co 2680 Lisbon Rd Cleveland 4 Ohio "Ohio Quality"
**OSBORN MFG CO 5401 Hamilton Ave N E Cleveland 14 Ohio**
Pittsburgh Plate Glass Co (Brush Div) 3221 Frederick Ave Baltimore 29 Md "Perfect Balance"
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Swiss Laboratory 1533 Hamilton Ave Cleveland 14 Ohio
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y
Worcester Brush & Scraper Co 38 Austin St Worcester Mass
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco"

**BRUSHING MACHINES—See Machines, Brushing**

## BUFFERS, Portable Electric

Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo
Big Four Industries Inc Maineville Foster Ohio
Bishman Mfg Co Route 2 Osseo 26 Minn (Tire)
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "Universal" "Hi-cycle" "Super Cycle"**
Clarke Floor Machine Co 30 E Clay Ave Muskegon Mich
Egan Mfg Co H B P O Box 1406 Muskogee Okla "Camel" (Tire)
General Supply Co 1920 McGee Trafficway Kansas City 8 Mo
Ingersoll-Rand Co 11 Broadway N Y 4 N Y
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil"
Thor Power Tool Co 175 State St Aurora Ill

## BUFFERS, Portable Pneumatic

Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

**BUFFING EQUIPMENT**

**See following heads:**
**Buffers, Portable Electric**
**Compounds, Buffing and Polishing (Metal)**
**Machines, Buffing and Polishing**
**Machines, Flexible Shaft (Portable Electric)**
**Wheels, Buffing and Polishing**

**BULBS, INCANDESCENT LAMP—See Lamps or Bulbs, Miniature Incandescent**

## BULLDOZERS, Metal Forming

Kling Bros Engrg Works 1320 N Kosher Ave Chicago 51 Ill (Hydraulic)
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
Williams White & Co 100 Eighth St Moline Ill (Hydraulic and mechanical)

**BUMPER GUARDS—See Guards, Bumper**

## BUMPERS, Auto and Truck

**(Front and rear)**

American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich (Truck)
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Electric Autolite Co Toledo 1 Ohio "Autolite"
Holmes Co Ernest 2505 E 43rd St Chattanooga 7 Tenn (Push for wrecker trucks)
Houdaille Industries Inc Huntington Div 900 Ninth Ave W Huntington W Va
Hutchinson Co 735 Ricov St Shreveport La "Redi-Fit" (Rear for light trucks)
Michigan Plating & Stamping Co 740 Ann St N W Grand Rapids Mich
Nash Bros Co 2125 Dewey Ave Evanston Ill "Body-Gard" (Steel or aluminum for trucks and buses)
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa
Rheem Automotive Co 601 S Placetina Ave Fullerton Calif
Rockwell-Standard Corp Bumper Div 843 Fourth Ave Coraopolis Pa

## BUMPERS, Spring

**(Rubber or spiral spring bumpers to prevent car frame from striking axle)**

Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Industrial Rubber Goods Co St Joseph Mich
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## BURNERS, Lead

Hoke Inc 1 Tenakill Pk Cresskill N J "Hoke-Jewel"
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG"
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn
Tolman Mfg Co 19 W Third St (South Boston) Boston 27 Mass "Lightning"

**BURNISHING BARRELS—See Barrels, Burnishing and Tumbling**

## BURS

**(Used in connection with flexible shaft equipment, for tool and pattern making)**

Dixon Inc William 32 E Kinney St Newark N J
Ford Mfg Co M A P O Box 628 Davenport Iowa
Heller Tool Co Heller Dr Newcomerstown Ohio (High speed and carbide)
Lincoln Park Industries Inc 1719 Ferris Ave Lincoln Park 25 Mich "Carburs"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Nicholson File Co Providence 1 R I
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Di-Bur"; "Kellerflex" (Carbide)
Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich "Midget Mills"
Simonds Saw & Steel Co 470 Main St Fitchburg Mass (High speed and carbide)
Wendt-Sonis Co Tenth & Collier Sts Hannibal Mo "W-S" (Carbide)
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y (Carbide)

**BURRS—See Washers, Brass and Copper; Washers, Iron and Steel; also Washers and Burrs, Riveting**

**BUS BODY PARTS (Steel)—See Parts, Bus Body (Steel)**

**BUS WINDOWS—See Windows, Metal Sash (Bus, Cab and Trailer)**

## BUSES

Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla (Gasoline or Diesel)
Chevrolet Motor Div of General Motors Corp General Motors Corp Detroit 2 Mich (Chassis only)
Crown Coach Corp 2500 E 12th St Los Angeles 21 Calif (Gasoline and Diesel)
Divco Truck Div Divco-Wayne Corp 22000 Hoover Rd Detroit 5 Mich (School; "Coachline" small transit)
Dodge Div Chrysler Corp 7900 Joseph Campau Ave Detroit 31 Mich (School)
Federal Motor Truck Co 834 N Seventh St Minneapolis 11 Minn
Flxible Co 326 N Water St Loudonville Ohio "Flxible" (Intercity; "Flxible-Twin" city)
Ford Div Ford Motor Co Rotunda Drive at Southfield Rd Dearborn Mich (Chassis only)
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich "GM Coach"
Gillig Bros 50 El Dorado St (P O Box 330) Hayward Calif
"HH" Manufacturers 2224 Cerritos Ave Long Beach Calif
Highway Products Inc 789 Stow St Kent Ohio "Hypro" (Highway post office vehicles and specialized motor coaches)
Mack Trucks Inc 1000 S Second St Plainfield N J (Gasoline and Diesel)
Marmon-Herrington Co 1511 W Washington St Indianapolis 7 Ind (Also school bus chassis)
Reo Div White Motor Co 1331 S Washington St Lansing 20 Mich (School chassis only)
Southern Coach & Body Co Evergreen Ala
Studebaker-Packard Corp 635 S Main St South Bend 27 Ind (Chassis only)
Superior Coach Corp E Kibby St & D T & I R R Lima Ohio (School)
White Motor Co 842 E 79th St Cleveland 1 Ohio (School)

**BUSHING OIL GROOVING MACHINES—See Machines Oil Grooving**

## BUSHINGS, Adjustable Thickness

**ADJUSTABLE BUSHING CO 12036 Vose St North Hollywood Calif "Adjust-To-Fit"**

**BUSHINGS, BRONZE — See Bearings and Bushings, Bronze and Bronze-Backed**

**BUSHINGS, DRILLING AND REAMING—See Bushings, Jig**

## BUSHINGS, Jig

Accurate Bushing Co 443 North Ave Garwood N J "ABC"
Ace Drill Bushing Co 5407 Fountain Ave Los Angeles 29 Calif (Drill)
Acme Industrial Co 200 N Laflin St Chicago Ill (Drill)
American Drill Bushing Co 5107 Pacific Blvd Los Angeles 58 Calif (Drill)
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO" (Drill)**
Hi-Shear Corp 2600 W 247th St Torrance Calif "Anchor" (Drill)
Jig Bushing Co 454 Cass Ave Pontiac Mich "Briney" (Drill; sole distributors Leland-Gifford Co 1025 Southbridge St Worcester Mass)
Kennametal Inc Lloyd Ave Latrobe Pa (Drill)
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
Meyers Co W F 1017 14th St Bedford Ind "Meyco"
Universal Engineering Co 126 N Main St Frankenmuth Mich (Drill)

**BUSHINGS, METALLIC POWDER — See Parts, Metallic Powder**

## BUSHINGS, Rubber

Accurate Bushing Co 443 North Ave Garwood N J "ASA"
Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex"
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio
Clevite Harris Products Inc Lockwood Rd Milan Ohio "Clevebloc"
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goshen Rubber Co 609 E Iowa St Goshen Ind
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Lord Mfg Co 1635 W 12th St Erie Pa (Bonded to metal)
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y

**BUSHINGS, SELF - LUBRICATING — See Bearings and Bushings, Self-Lubricating (Auto)**

## BUSHINGS, Steel

Aetna Ball & Roller Bearing Co Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Brown Corp 213 Bellevue Ave Syracuse N Y
Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Bull Dog"
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Marquette Div Curtiss-Wright Corp 1145 Galewood Drive Cleveland 10 Ohio
Wagner Mfg Co E R 4611 N 32nd St Milwaukee 16 Wis (Nylon-steel)

**BUTANE ENGINES—See Engines, Butane and Propane (Bus and Truck)**

## BUTTONS, Plug

**CARR FASTENER CO 31 Ames St Cambridge Mass**

## CABINETS, Accessory

**BAY PRODUCTS Div American Metal Works Inc 1835 W Cambria St Philadelphia 32 Pa**

## CABINETS, Blast Cleaning

Pangborn Corp 200 Pangborn Blvd Hagerstown Md "Pangborn Hydro-Finish"
Ruemelin Mfg Co 3860 N Palmer St Milwaukee Wis
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio "Slyblast"

**CABLE, BATTERY—See Cables, Storage Battery**

## CABLE, Brake Control

Bergen Wire Rope Co 52 Gregg St Lodi N J
Miley Co L J 1062 W Adams St Chicago Ill
Milwaukee Spring Co Div Illinois Coil Spring Co 3400 S Nevada St Milwaukee 7 Wis
Orscheln Brake Lever Mfg Co 1177 N Morley St Moberly Mo
Roebling's Sons John A Div Colorado Fuel & Iron Corp 640 S Broad St Trenton 2 N J
Teleflex Industrial Products Inc Fourth & Berks Sts Boyertown Pa
United Parts Mfg Div Echlin Mfg Co 1250 W Van Buren St Chicago 7 Ill "Flexite"

## CABLE, Brake Control (With Conduit)

American Chain & Cable Co Automotive & Aircraft Div 601 Stephenson Bldg Detroit 2 Mich "Tru-Lay" (Using "Tru-Loc" fittings)
Bendix Products Div Bendix Corp South Bend 20 Ind
Eis Automotive Corp Middletown Conn
Gwilliam Co 360 Furman St Brooklyn 1 N Y "Bowden"
Lisle Corp Brake Div 805 E Main St Clarinda Iowa

## CABLE, Ignition, Starting and Lighting

**(In bulk, length on spools, rolls, etc.)**

American Electric Cable Co 181 Appleton St Holyoke Mass "Lusterlac" "Power Streak"
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill (Lighting for trailers)
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
Electric Autolite Co Toledo 1 Ohio "Autolite"
Essex Wire Corp 1601 Wall St Fort Wayne Ind "SX"
Exide Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"
Flexo Wire Div Copperweld Steel Co 70 W First St Oswego N Y
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
**PACKARD ELECTRIC Div General Motors Dana St Warren Ohio**
Realflex Products Co 335 38th St Brooklyn 32 N Y "Realflex" "Speedway" "Yankee"
Royal Electric Corp 95 Grand Ave Pawtucket R I
Sittler Corp 18 N Ada St Chicago 7 Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple-A" "Silver Beauty"
Velvac Inc 3534 W Pierce S Milwaukee 15 Wis
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Whyte Electric Products Co Ray 17630 E Ten Mile Rd East Detroit Mich
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"

## CABLES (Sets)

**(Ignition and lighting assemblies made up to fit different makes of cars)**

American Electric Cable Co 181 Appleton St Holyoke Mass "Lusterlac" (Ignition)
American Phenolic Corp 1830 S 54th Ave Chicago 50 Ill
Beck Products Corp 12255 E 8 Mile Rd Detroit 5 Mich
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill "Pyril"
Cole-Hersee Co 54 Old Colony Ave Boston 27 Mass
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
Eisenhauer Mfg Co P O Box 390 Van Wert Ohio
Electric Autolite Co Toledo 1 Ohio "Autolite"
Essex Wire Corp 1601 Wall St Fort Wayne 6 Ind "SX"
Exide Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
**PACKARD ELECTRIC Div General Motors Dana St Warren Ohio "Packard Four-Forty" (Ignition)**
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y (Ignition)
Realflex Products Co 335 38th St Brooklyn 32 N Y "Realflex" "Speedway" "Yankee"
Sittler Corp 18 N Ada St Chicago 7 Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple-A" "Silver Beauty"
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper" (Spark plug)
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"

**CABLES SPARK PLUG—See Cables (Sets)**

## CABLES, Storage Battery

**(Complete with terminals and cut in proper lengths to fit different makes of cars)**

American Electric Cable Co 181 Appleton St Holyoke Mass "Lusterlac" & "Power Streak"
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind
Comet Automotive Mfg Corp Red Comet Bldg Littleton Colo

## CABLE, Storage Battery—continued

Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
East Penn Mfg Co Lyons Station Pa "Deka"
Electric Autolite Co Toledo 1 Ohio "Autolite"
Essex Wire Corp 1601 Wall St Fort Wayne Ind "SX"
Exide Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
**PACKARD ELECTRIC Div General Motors Dana St Warren Ohio**
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Sittler Corp 18 N Ada St Chicago 7 Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple-A" "Silver Beauty"
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper"
Westric Battery Co 4201 Galapago St Denver 16 Colo
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"

## CABLES, Welding

(See also Hose, Welding)

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y**
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
General Cable Co 730 Third Ave N Y 17 N Y
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio "Stable-Arc" "Lincolnductor"
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG"
Roebling's Sons John A Div Colorado Fuel & Iron Corp 640 S Broad St Trenton 2 N J
Sittler Corp 18 N Ada St Chicago 7 Ill
Tweco Products Inc Boston at Mosley Sts Wichita 1 Kans "Tweco-Lite"
United Metal Craft Co 800 Lowell St Ypsilanti Mich "Uniflex"

## CABS, Industrial Truck, etc.

Allen Industrial Products Inc 300 Pilgrim Rd Menomonee Falls Wis
Barkow Co H 153 N Milwaukee St Milwaukee 2 Wis
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich
Crenio Inc 1600 Fourth Ave N W Rochester Minn
Mercury Mfg Co 4700 W Division St Chicago 51 Ill

## CABS, Truck Body (Wood, Metal and Plastic)

Allen Industrial Products Inc 300 Pilgrim Rd Menomonee Falls Wis
Aluminum Body Corp 1600 W Washington Blvd Montebello Calif "ABC" (Aluminum sleeper)
Automotive Industries Inc Owendale Mich (Steel sleeper)
Bedell Trailer Co 1506 S Flores St San Antonio 4 Tex (Steel sleeper)
Chicago Mfg Co 411 N Trumbull Ave Chicago 24 Ill (Steel or aluminum)
Clark Equipment Co Brown Trailer Div Michigan City Ind (Aluminum sleeper)
Crown Steel Products Co 1330 N Main St Orrville Ohio (Steel)
Cutler Metal Products Co 1025 Line St Camden N J
D E K Mfg Co 420 E Pine St Orrville Ohio (Plastic)
Kelly Mfg Co 503 Broad St Charleston 21 W Va "Kelly" "Kemco" (Steel for jeeps)
Koenig Iron Works Inc P O Box 7726 Houston 10 Tex (Steel for jeeps)
McLaughlin Body Co 2430 Third Ave Moline Ill (Metal)
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiber glass reinforced)**
Montpelier Mfg Co Montpelier Ohio
Orrville Body Co Orrville Ohio (Also sleeper)
Stoughton Body Div of M P M Corp 408 E South St Stoughton Wis (Sleeper)
Timpte Bros Inc 5900 N Washington St Denver Colo (Steel sleeper)
Truck Cab Mfrs Inc 1201 Findlay St Cincinnati 14 Ohio (Metal)
Woeber Auto Body Mfg Co 4970 Jackson St Denver 16 Colo (Sleeper)
Youngstown Kitchens-Div of American-Standard 605 S Ellsworth St Salem Ohio (Steel)

**CAB WINDOWS—See Windows, Metal Sash (Bus, Cab and Trailer)**

**CALENDERING and COATING MATERIALS—See Resins Synthetic (For Bonding, Impregnating, Laminating and Protective Coatings)**

**CAM BORING MACHINES—See Machines, Boring (Cam)**

**CAM GRINDING MACHINES—See Machines, Grinding (Cam)**

**CAM MILLING MACHINES—See Machines, Milling (Cam)**

## CAMSHAFTS, Cast

Campbell Wyant & Cannon Foundry Co Muskegon Mich "Cannonite"

## CAMSHAFTS, Finished or Machined

(For camshafts in the rough—see Forgings)

Almquist Engrg Co Milford Pa (Racing)
Atlas Industries Inc 2000 E Main St Woodville O
Continental Motors Corp Muskegon 82 Mich
**EONIC INC 459 E Hollywood St Detroit 3 Mich**
Muskegon Camshaft Co Seventh & Larch Sts Muskegon 81 Mich "Accuratime" (Finished)
Ohio Crankshaft Co 3800 Harvard Ave Cleveland 5 Ohio
Universal Camshaft Co 350 E Broadway Muskegon Heights Mich

## CAMSHAFTS, Forgings

Bethlehem Steel Co Bethlehem Pa
Ladish Co 5481 S Packard Ave Cudahy, Wis
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio
Unit Drop Forge Div of Fuller Mfg Co 1903 S 62nd St Milwaukee 1 Wis

## CAPS, Crankcase Breather

(See also Ventilators, Crankcase)

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich
**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**
Badger Mfg Corp 1501 W Polk St Chicago Ill
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill
Vortox Co 121 S Alexander Ave Claremont Calif

## CAPS, Gasoline Tank

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich
Airaterra 620 Paula Ave Glendale 1 Calif "Roylyn"
Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich
Badger Mfg Corp 1501 W Polk St Chicago Ill
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill "Seal-Tite" "Berkson"
Chilton Metal Products Inc 300 Breed St Chilton Wis
**EATON MFG CO Stamping Div 17877 St Clair Ave Cleveland 10 Ohio**
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill (Non-syphonable)
Lincoln Brass Works 2067 12th St Detroit 16 Mich
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Monarch Insulated Wire Co 491 Broadway New York 12 N Y
Namsco Inc 333 31st Ave Bellwood Ill "National"
Norlipp Co 5925 S Lowe Ave Chicago 21 Ill
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Stant Mfg Co 1620 Columbia St Connersville Ind "Evrseal"
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## CAPS, Gasoline Tank (Locking)

Badger Mfg Corp 1501 W Polk St Chicago Ill
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill "Berkson" & "Seal-Tite"
Edelmann & Co E Wayne Metalcraft Div 2332 Logan Blvd Chicago 47 Ill "Wayne"
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio
Hall Products Div of C M Hall Lamp Co 1035 E Hancock Ave Detroit 7 Mich "Gas Lock"
Norlipp Co 5925 S Lowe Ave Chicago 21 Ill
Stant Mfg Co 1620 Columbia St Connersville Ind "Dual-Loc" "Evrseal"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## CAPS, Hubs

Akron-Selle Co High & Chestnut Sts Akron 11 Ohio (To order)
Auld Co D L Fifth Ave & Fifth St Columbus 1 Ohio
Badger Mfg Corp 1501 W Polk St Chicago Ill
Brown-Lipe-Chapin Div of General Motors Corp Town Line Rd Syracuse N Y
Crosby Co 183 Pratt St Buffalo N Y
Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio
Electric Autolite Co Toledo 1 Ohio "Autolite"
Geneva Metal Wheel Co 191 Factory Row Geneva Ohio
Hurd Lock & Mfg Co Almont Mich
Konigslow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio
Namsco Inc 333 31st Ave Bellwood Ill "National"
Rockford Metal Products Inc 716 Cedar St Rockford Ill
Wesbar Stamping Corp West Bend Wis

## CAPS, Oil Filler

Badger Mfg Corp 1501 W Polk St Chicago 7 Ill
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill "Seal-Tite"
**EATON MFG CO Stamping Div 17877 St Clair Ave Cleveland 10 Ohio**
Edelmann & Co E Wayne Metalcraft Div 2332 Logan Blvd Chicago 47 Ill "Wayne"
Moeller Mfg Co 2335 Durand Ave Racine Wis "Turn-Tite"
Stant Mfg Co 1620 Columbia St Connersville Ind

## CAPS, Radiator

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Pressure)**
American Insulator Corp New Freedom Pa (Composition)
Badger Mfg Corp 1501 W Polk St Chicago Ill (Underhood and pressure)
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill (Pressure and non-pressure)
**EATON MFG CO Stamping Div 17877 St Clair Ave Cleveland 10 Ohio (Standard and pressure)**
Edelmann & Co E Wayne Metalcraft Div 2332 Logan Blvd Chicago 47 Ill "Wayne" (Pressure)
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill (Pressure)
Loock & Co R J 343 N Gay St Baltimore Md (Pressure and underhood)
Namsco Inc 333 31st Ave Bellwood Ill "National"
Norlipp Co 5926 S Lowe Ave Chicago 21 Ill
Rockford Metal Products Inc 716 Cedar St Rockford Ill
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Stant Mfg Co 1620 Columbia St Connersville Ind "Evrseal" (Standard and pressure)
Truckstell Mfg Co 3490 W 140th St Cleveland 11 Ohio (Pressure)
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Wheel Parts & Mfg Co 352 Fourth Ave New York 10 N Y "National"

**CAPS, TANK—See Caps, Gasoline Tank**

## CAPS, Tire Valve

Acme Air Appliance Co 205 Newman St Hackensack N J
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio

Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
Emvir Mfg Co 1705 Lincoln St Evanston Ill "Autocap" (Automatic)
G M Co Mfg Inc 13-08 43rd Ave Long Island City L I N Y
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
**SCHRADER'S SON Div of Scovill Mfg Co A 470 Vanderbilt Ave Brooklyn 38 N Y "Dubilite"**
Syracuse Gauge Co 113 S Midler Ave Syracuse 6 N Y
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y

## CARBIDE, Cemented

(For cemented carbide tools—See under Tools, Cutting)

Allegheny Ludlum Steel Corp Carmet Div Detroit 20 Mich "Carmet"
Firth-Load Metals Inc Buttermilk Hollow Rd McKeesport Pa "Firlomet"
General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich "Carboloy"
Kennametal Inc Lloyd Ave Latrobe Pa
Viking Tool Co 1000 Nichols Rd Shelton Conn
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich "Wessonmetal" (Blanks)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich

## CARBON DIOXIDE (For Welding, Hardening, Etc.)

Pure Carbonic Co 150 E 42nd St N Y 1 N Y "Pureco"

**CARBON REMOVERS — Solvents, Oil and Grease Removing**

**CARBORUNDUM PAPER—See Paper, Abrasive**

**CARBORUNDUM WHEELS — See Wheels, Grinding**

**CARBURETOR PARTS AND ATTACHMENTS — See Cleaners, Air, Carburetor (Auto); Controls, Carburetor Choke (Automatic); Controls, Push-Pull; Floats, Cork; Floats, Metal; Parts, Carburetor; also Silencers, Carburetor Intake**

**CARBURETOR TESTERS (For Factories)—See Testers, Carburetor (For Factories)**

## CARBURETORS, Butane, Propane and LP-Gas

(See also Converters LP-Gas for Gasoline Engines)

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass "Ensign"
American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif "Algas"
Beam Products Mfg Co 3040 Rosslyn St Los Angeles 65 Calif
**CENTURY GAS EQUIPMENT Marvel-Schebler Products Div Borg-Warner Corp 625 Southside Dr Decatur Ill**
J & S Carburetor Co P O Box 10391 Dallas 7 Tex
Marvel-Schebler Products Div Borg-Warner Corp Decatur Ill
**ZENITH CARBURETOR Div of Bendix Corp 698 Hart Ave Detroit 14 Mich**

## CARBURETORS, Gasoline

Almquist Engrg Co Milford Pa
Bendix Products Div Bendix Corp South Bend 20 Ind "Stromberg" (For replacement)
**CARTER CARBURETOR Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo (Automatic and manual choke)**
Cass City Carburetor Div Walbro Corp Cass City Mich "Walbro"
**ECLIPSE MACHINE Div Bendix Corp Elmira N Y "Stromberg" (For original equipment)**
**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**
Marvel-Schebler Products Div Borg-Warner Corp Decatur Ill
**ROCHESTER PRODUCTS Div General Motors Corp 1000 Lexington Ave Rochester 3 N Y "Rochester-GM"**
Tillotson Mfg Co 761 Berdan St Toledo Ohio
**ZENITH CARBURETOR Div of Bendix Corp 696 Hart Ave Detroit 14 Mich "Zenith"; (Also "Zenith Gov-U-Retor" combination carburetor and governor**

**CARDS, FILE—See Brushes, File Cleaning**

## CARPET, Auto

(See also Coverings, Floor [Bus or Truck]

Automotive Products Div Crotty Corp 35 E Chicago Ave Quincy Mich
Collins & Aikman Corp 210 Madison Ave N Y 16 N Y
Crest Mfg Co 22940 Lahser Rd Southfield Mich (Mats)
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**
Duncan Co W H 1186 Union St Brooklyn 25 N Y
Fabric Sales Inc 97 Chestnut St Newark 5 N J
Fulmer Arthur 260 Monroe Ave Memphis 1 Tenn
Gates Rubber Co 999 S Broadway Denver 17 Colo
Masland & Sons C H Carlisle Pa
Nafi Corp 527 23rd Ave Oakland 6 Calif
Newark Auto Top Co 101 Central St Newark 2 N J "Newart"
Stevens & Co J P 24126 Woodward Ave Pleasant Ridge N J
Vogt Mfg Corp 100 Fernwood Ave Rochester 21 N Y
Zink Corp Howard Jackson & Napoleon Sts Fremont Ohio
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Zim Mfg Co 2850 W Fulton St Chicago 12 Ill

**CASE-HARDENING—See Treating, Heat**

**CASE-HARDENING BOXES AND POTS—See Boxes and Pots, Annealing and Case Hardening**

**CASE-HARDENING COMPOUNDS—See Compounds, Case Hardening**

**CASE-HARDENING FURNACES — See Furnaces, Heat Treating**

## CASES, Transfer

**DANA CORP 4100 Bennett Rd Toledo 1 Ohio**
FWD Corp E 12th St Clintonville Wis
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich**

**CASING, FLEXIBLE METALLIC—See Shafting, Flexible**

**CAST PHENOLIC PLASTICS—See Plastics, Cast (Phenolic and Resin)**

## CASTERS, Truck

Albion Industries Inc P O Box 411 Albion Mich
Divine Bros Co 200 Seward Ave Utica 1 N Y
Fairbanks Co 393 Lafayette St N Y 3 N Y
Faultless Caster Corp 1427 N Garvin St Evansville 7 Ind
Hamilton Caster & Mfg Co 1517 Dixie Highway Hamilton Ohio
Rapids-Standard Co Rapidstan Bldg Grand Rapids 2 Mich "Rapistan"
Thomas Truck & Caster Co 931 Mississippi River Keokuk Iowa "Sturdy" "Super"

**CASTING MACHINES, DIE — See Machines Die Casting**

## CASTINGS, Aircraft

Thompson Products Inc 2355 S Euclid Ave Cleveland 17 Ohio

## CASTINGS, Aluminum

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"; "Lo-Ex" "Lynite" (Piston)
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Arrow Head Steel Products Co Howell Mich (Aluminum)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich
**CENTRAL FOUNDRY Div General Motors Corp 37 Florence St Saginaw Mich**
Chicago Hardware Foundry Co 2500 Commonwealth Ave North Chicago Ill "CHF"
Dayton Malleable Iron Co 3931 S Dixie Highway Kettering 39 Ohio
Eastern Malleable Iron Co Naugatuck Works 112 Bridge St Naugatuck Conn
Electric Autolite Co Toledo 1 Ohio "Autolite"
**GILLETT & EATON INC 8th & Doughty Sts Lake City Minn (Aluminum alloy and vanasil)**
Howard Foundry Co 1700 N Kostner Ave Chicago 39 Ill
Indiana Foundry Corp Tenth & Liberty Sts Muncie Ind
Littlestown Hardware & Foundry Charles St Littlestown Pa
Meta-Mold Aluminum Co 525 E Hamilton Ave Cedarburg Wis
Mohawk Foundries Inc 55 First Ave Berea Ohio
Monarch Aluminum Mfg Co 9205 Detroit Ave Cleveland 2 Ohio "Monarcast"
Permold Co 820 W Liberty St Medina Ohio
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa
Rolle Mfg Co Third St & Cannon Ave Lansdale Pa
Scully Foundry & Machine Co 66 S River St Coxsackie N Y
Standard Brass Works 1810 W St Paul Ave Milwaukee Wis
Sterling Aluminum Products Inc 2600 N Third St St Charles Mo
Stewart Die-Casting Div of Stewart-Warner Corp 4535 Fullerton Ave Chicago 39 Ill "S"
Thompson Products Light Metals Div Thompson-Ramo Wooldridge Inc 2269 Ashland Rd Cleveland 3 Ohio
True Alloys Inc 284 S Summit St Detroit 9 Mich
Union Metal Mfg Co 1432 Maple Ave N E Canton 5 Ohio
Waukesha Foundry Co Lincoln Ave Waukesha Wis
Wellman Bronze & Aluminum Co 9401 Woodland Ave Cleveland 4 Ohio "Well-Cast"

## CASTINGS, Brass and Bronze

Ampco Metal Inc S 38th St Milwaukee 1 Wis "Ampco Metal" (Aluminum bronze; "Ampcoloy" bronze)
Bearium Metals Corp Mill & Commercial Sts Rochester 14 N Y (Bronze)
Bethlehem Steel Co Bethlehem Pa
Burlington Brass Works P O Box 388 Burlington Wis
Chicago Hardware Foundry Co 2500 Commonwealth Ave North Chicago Ill "CHF"
Frontier Bronze Corp 4870 Packard Rd Niagara Falls N Y (Bronze)
Grand Haven Brass Foundry 230 N Hopkins St Grand Haven Mich
Howard Foundry Co 1700 N Kostner Ave Chicago 39 Ill
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Littlestown Hardware & Foundry Charles St Littlestown Pa
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich "Streamline"
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn
Scully Foundry & Machine Co 66 S River St Coxsackie N Y
Standard Brass Works 1810 W St Paul Ave Milwaukee Wis
True Alloys Inc 284 S Summit St Detroit 9 Mich
Waukesha Foundry Co Lincoln Ave Waukesha Wis

## CASTINGS, Die

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Zinc)**
Alpha Industries Inc 615 Center St Logansport Ind (Aluminum)
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
Badger Die Casting Corp 201 W Oklahoma St Milwaukee 7 Wis (Zinc and aluminum)
Benton Harbor Malleable Industries 171 Graham Ave Benton Harbor Mich (Cast zinc)
**BROWN-LIPE-CHAPIN Div of General Motors Corp Town Line Rd Syracuse N Y (Zinc)**
Chicago Die Casting Mfg Co 2510 W Monroe St Chicago 12 Ill
Congress Die Casting Div Tann Corp 3750 E Outer Drive Detroit 34 Mich (Zinc)
Continental Die Casting Co 9615 Grinnell St Detroit 13 Mich (Zinc)
Dayton Die Casting Co., 111 Front St Dayton 2 Ohio "Daybro" (Zinc lead and aluminum)
**DOEHLER-JARVIS Div of National Lead Co Smend & Prospect Ave Toledo 1 O "Doler-Zink" "Doler-Mag" "Doler-Brass" "Do-Lite" "Doler-Alsiloy" (Aluminum, zinc brass and magnesium "Doehler" plastic zinc)**
Dollin Corp 604 S 21 St Irvington 11 N J (Zinc and aluminum)
Douglas Co 620 12th Ave Minneapolis 4 Minn
Dow Chemical Co Midland Mich (Magnesium)
Dura Corp Dura Div 4500 Detroit Ave Toledo 12 Ohio
Du-Wel Metal Products Inc PO Box 307 Bangor Mich "D-W"( (Zinc and aluminum)
Electric Autolite Co Toledo 1 Ohio "Autolite" (Zinc and aluminum)
Federal Die Casting Co 2222 Elston Ave Chicago 14 Ill

## CASTINGS, Die—continued

Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "G R C" (Small zinc)
Guide Lamp Div General Motor Corp 25th St & Arrow Ave Anderson Ind
Hall Lamp Co C M 1035 E Hancock Ave Detroit Mich (Zinc)
Hardy Mfg Corp W Pearl St Union City Ind (Zinc base plated)
Heick Die Casting Corp 6550 W Diversey Ave Chicago Ill (Zinc and aluminum)
Hoover Co 101 E Maple St North Canton Ohio (Aluminum and zinc)
Light Metals Inc 1100 E 24th St Indianapolis 5 Ind "Ly-Mie" (Aluminum and magnesium)
Madison-Kipp Corp 201 Waubesa St Madison Wis
Magline Inc 952 Murray Rd Pinconning Mich (Aluminum and magnesium)
Meta-Mold Aluminum Co 525 E Hamilton Rd Cedarburg Wis (Aluminum and magnesium alloy)
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich**
Milwaukee Die Casting Co 4148 N Holton St Milwaukee 12 Wis (Aluminum lead tin and zinc)
Mohawk Foundries Inc 55 First St Berea Ohio (Aluminum)
Monarch Aluminum Mfg Co 9205 Detroit Ave Cleveland 2 Ahio "Velvagiaze" (Aluminum and zinc)
Monarch Governor Co 2800 Tyler Rd Willow Run Mich "Sonicast"
National Lock Co 1902 Seventh St Rockford Ill (Zinc)
Newton-New Haven Co 680 Third Ave West Haven 16 Conn
Paragon Die Casting Co 5851 Dickens Ave Chicago 39 Ill (Aluminum and zinc)
Paramount Die Casting Co St Joseph 20 Mich (Aluminum and zinc)
Parker White-Metal Co 23rd St & Pennsylvania Ave Erie Pa "Parker Erie" (Zinc aluminum and brass)
Schultz Die Casting Co 1812 Clinton St Toledo Ohio (Zinc and aluminum)
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind
Standard Brass Corp 915 W Perry St Belvidere Ill
Stant Mfg Co 1620 Columbia St Connersville Ind (Chrome plated)
Sterling Aluminum Products Inc 2600 N Third St St Charles Mo "Conformatic" (Aluminum)
Stewart Die-Casting Div of Stewart-Warner Corp 4535 Fullerton Ave Chicago 39 Ill "S" (Zinc and aluminum)
Thompson Products Light Metals Div Thompson-Ramo Wooldridge Inc 2269 Ashland Rd Cleveland 3 Ohio
Titan Metal Mfg Co Bellefonte Pa

## CASTINGS, Iron

(See also Rings, Piston [Castings for Same])

Advance Foundry Co 107 Seminary Ave Dayton 3 Ohio "Strenes Metal" (Gray Ductile and alloy)
Albion Malleable Iron Co Albion Mich (Malleable)
Almont Mfg Co Imlay City Mich (Gray)
Alten Foundry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio (Gray and ductile)
Auto Specialties Mfg Co 643 Graves St St Joseph Mich (Malleable)
Bendix Lakeshore Div Bendix Corp Lake Shore Dr St Joseph Mich (Gray)
Benton Harbor Malleable Industries 171 Graham Ave Benton Harbor Mich (Malleable)
Bethlehem Steel Co Bethlehem Pa
Brady Conveyors Corp 4244 Dempster St Skokie Ill (Gray)
Burch Corp Thoman St Crestline Ohio (Gray)
Campbell Wyant & Cannon Foundry Co Div of Textron Inc Muskegon Mich "CWC" (Gray)
**CENTRAL FOUNDRY Div General Motors Corp 37 Florence St Saginaw Mich (Gray and malleable; "ArmaSteel" pearlitic)**
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis (Gray and malleable)
Chicago Hardware Foundry Co 2500 Commonwealth Ave North Chicago Ill "CHF" (Gray and Ductile)
Chicago Malleable Castings Co 1225 W 120th St Chicago 43 Ill (Malleable)
Dayton Malleable Iron Co 3931 S Dixie Highway Kettering 39 Ohio (Gray and malleable)
Eastern Malleable Iron Co Naugatuck Works 112 Bridge St Naugatuck Conn (Standard and pearlitic)
**EATON MFG CO FOUNDRY Div 700 E Huron St Vassar Mich (Gray)**
Electric Autolite Co Toledo 1 Ohio "Autolite" (Gray)
Elyria Foundry Div Chromally Corp Elyria Ohio (Gray)
**ENGINEERING CASTINGS INC 405 S Linden St Marshall Mich (Alloy)**
Erie Malleable Iron Co 609 W 12th St Erie Pa "Erie" (Malleable; "Ermal" "Ermalloy" "Z metal" pearlitic)
Ferro Cast Corp Chicago Dr Zeeland Mich (Centrifugal)
Frank Foundries Corp 2020 Third Ave Moline Ill
General Casting Corp 706 E Main St Waukesha Wis (Gray)
General Metals Corp Foundry & Forge Div 550 85th Ave Oakland Calif (Malleable)
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
**GILLET & EATON INC Eighth & Doughty Sts Lake City Minn (Gray and alloy)**
Grede Foundries Inc 1320 S First St Milwaukee 1 Wis (Gray)
Gunite Foundries Corp 302 Peoples Ave Rockford Ill (Gray and ductile)
Hardinge Mfg Co 240 Arch St York Pa (Meehanite metal)
Howard Foundry Co 1700 N Kostner Ave Chicago 59 Ill (Gray ductile etc)
Indiana Foundry Corp Tenth & Liberty Sts Muncie Ind (Gray)
King Foundries Inc Elm Ave & Center St North Wales Pa (Gray)
Lake City Malleable Co 5060 Lakeside Ave Cleveland 14 Ohio "Shock Proof" (Malleable and pearlitic)
Lake Shore Inc Iron Mountain Mich (Gray)
Lakey Foundry Corp Foot of First St Muskegon Mich (Gray)
Lehigh Mfg Co Div of Lehigh Inc Lehigh Dr Easton 1 Pa (Gray and malleable)
Link-Belt Co Dept 60-A1PG Prudential Plaza Chicago 1 Ill (Gray malleable and pearlitic)
Littlestown Hardware & Foundry Charles St Littlestown Pa (Gray)
Meehanite Metal Corp 714 North Ave New Rochelle N Y (Ductile)
Midwestern Magnesium Div Flint & Walling Mfg Co High & North Sts Kendallville Ind (Gray)
Moline Malleable Iron Co St Charles Ill (Gray and malleable)
Motor Castings Co 1323 S 65th Ave West Allis Wis "Mocasco" (Gray)
**NATIONAL MALLEABLE & STEEL CASTINGS CO 10600 Quincy Ave Cleveland 6 Ohio "National HTM" (Peralitic malleable)**
National Motor Castings Div Campbell Wyant & Cannon Foundry Co Div Textron Inc South Haven Mich (Gray for pistons gears cylinder heads and manifolds)
Oakland Fdry & Machine Co 607 Woodward Ave Rochester Mich
**PERFECT CIRCLE CORP 552 S Washington St Hagerstown Ind (Gray)**
Sheppard Co R H 101 Philadelphia St Hanover Pa (Gray and ductile)
Sibley Machine & Fdry Corp 206 E Tutt St South Bend 23 Ind (Gray)
Sparta Foundry Co Div of Muskegon Piston Ring Co Sparta Mich "Spartaloy" (Gray)
Standard Automotive Parts Co 660 Nims St Muskegon Mich (Small ductile)
Stillman Foundry Co 1927 Will Ave N W Grand Rapids 4 Mich
Superior Steel & Malleable Casting Co 309 Graham Ave Benton Harbor Mich (Malleable)
Texas Foundries Inc P O Box 180 Lufkin Texas (Malleable and pearlitic)
Union Metal Mfg Co 1432 Maple Ave N E Canton 5 Ohio (Gray)
Western Automatic Machine Screw Co Electric Fdry Div 377 Woodland Ave Elyria Ohio (Alloy ductile and gray)
**WHELAND CO FOUNDRY Div 2800 S Broad St Chattanooga 2 Tenn (Gray)**
White Machine Works 1401 Bellevue Ave Eau Claire Wis (Gray)

## CASTINGS, Magnesium

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Dow Chemical Co Midland Mich
Howard Foundry Co 1700 N Kostner Ave Chicago 39 Ill
Light Metals Inc 1100 E 24th St Indianapolis 5 Ind "Ly-Mie" (Sand permanent mold and die)
Magline Inc 952 Murray Rd Pinconning Mich (Sand and permanent mold)
Meta-Mold Aluminum Co 525 Hamilton Rd Cedarburg Wis
Rolle Electric Co Third St & Cannon Ave Lansdale Pa (Sand and permanent mold)
Stewart Die-Casting Div of Stewart-Warner Corp 4535 Fullerton Ave Chicago 39 Ill "S"
Wellman Bronze & Aluminum Co 9401 Woodland Ave Cleveland 4 Ohio "Well-Cast"

## CASTINGS, Monel Metal

Frontier Bronze Corp 4870 Packard Rd Niagara Falls N Y
Waukesha Foundry Co Lincoln Ave Waukesha Wis

## CASTINGS, Nickel

Waukesha Foundry Co Lincoln Ave Waukesha, Wis

## CASTINGS, Nickel-Chromium

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
Driver-Harris Co Harrison 5 N J "Nichrome" "Chromax" "Cimet"
Eastern Malleable Iron Co Naugatuck Works 112 Bridge St Naugatuck Conn
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy"

## CASTINGS, Steel

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa "FCC" (Stainless and alloy Tool)
Almont Mfg Co Imlay City Mich (Semi)
Auto Specialties Mfg Co 643 Graves St St Joseph Mich
Bethlehem Steel Co Bethlehem Pa
Boker & Co H 101 Duane St New York 7 N Y "Kinite" (High carbon and high chrome)
Campbell Wyatt & Cannon Foundry Co Muskegon Mich
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis (Semi)
Chicago Hardware Foundry Co 2500 Commonwealth Ave North Chicago Ill "CHF" (Semi)
Chicago Malleable Castings Co 1225 W 120th St Chicago 43 Ill
Cincinnati Steel Castings Co Spring Grove Alabama & Bates Ave Cincinnati Ohio
Clark Equipment Co Automotive Div Buchanan 2 Mich
Crawford Steel Foundry Co 521 E Southern Ave Bucyrus Ohio "CSF"
Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio "Mineor" (Tool)
Dayton Malleable Iron Co 3931 S Dixie Highway Kettering 39 Ohio
Dayton Steel Foundry Co 1336 Miami Chapel Rd Dayton 1 Ohio
Dodge Steel Co 6501 State Rd Philadelphia 35 Pa (Carbon low alloy and stainless)
Eastern Malleable Iron Co Naugatuck Works 112 Bridge St Naugatuck Conn (Sand and stainless)
Electric Steel Castings Co 1045 Main St Speedway Indianapolis 24 Ind
**ENGINEEERING CASTINGS INC 405 S. Linden St Marshall Mich**
Falk Corp Box 492 Milwaukee 1 Wis "Moly-Telastic"
General Alloys Co 387 W First St Boston 27 Mass (Stainless)
Gillet & Eaton Inc 8th & Doughty Sts Lake City Minn (Semi)
Grede Foundries, Inc., 1320 S. First St., Milwaukee 1 Wis (Carbon alloy nitralloy and stainless)
Gunite Foundries Corp 302 People Ave Rockford Ill (Electric)
Howard Foundry Co 1700 N Kostner Ave Chicago 39 Ill
Indiana Foundry Corp Tenth & Liberty Sts Muncie Ind (Semi)
Jessop Steel Co Green St Washington Pa
Kay-Brunner Steel Products Inc 999 Meridian St Alhambra Cal
King Foundries Inc Elm Ave & Center St North Wales Pa (Semi)
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "LXS" "Link-Belt"
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St S S Pittsburgh Pa
Maynard Electric Steel Casting Co 2856 S 27th St Milwaukee 7 Wis
Michigan-Standard Alloy Casting Co 1999 Guion St Detroit 7 Mich "Misco" (Stainless)
Monroe Steel Castings Co 917 W Front St Monroe Mich
Mountain State Steel Foundries Inc Parkersburg W Va (Carbon and alloys)
National Malleable & Steel Castings Co 10600 Quincy Ave Cleveland 6 Ohio (Alloy)
Newark Malleable Iron Works 357 Wilson Ave Newark N J (Semi)
Racine Steel Castings Co 1442 Forest St Racine Wis.
Superior Foundry Inc 3542 E 71st St Cleveland 5 Ohio (Semi)
Superior Steel & Malleable Castings Co 309 Graham Ave Benton Harbor Mich
Texas Foundries Inc P O Box 180 Lufkin Tex (Low carbon alloy wear resistant and stainless)
Union Mfg Co 296 Church St New Britain Conn (Semi)

Union Metal Mfg Co 1432 Maple Ave NE Canton 5 Ohio (Semi)
Unitcast Corp Box 8 Station E Toledo 9 Ohio "Unitcastings" (Low alloy and carbon)
Western Automatic Machine Screw Co Electric Fdry Div 377 Woodland Ave Elyria Ohio
Waukesha Foundry Co Lincoln Ave Waukesha Wis (Stainless)

**CAVITY SINKER MACHINES — See Machines, Cavity Sinker**

**CELLULOSE ACETATE MATERIALS—See Plastics—Materials**

## CEMENT, For Bonding Rubber to Metal, Wood, Etc.

**(See also Adhesives)**

**DU PONT DE NEMOURS & CO E I Fabrics & Finishes Dept Fabrics Div Wilmington 98 Del "Fairprene" (For weatherstripping trim etc)**
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Marbon Chemical Div Borg-Warner Corp Box 68 Washington W Va "Ty-Ply"
St. Louis Rubber Cement Co 514 Calvary Ave St Louis 15 Mo "Griptite"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas, New York 20 N Y

**CEMENT, BRAKE BONDING—See Compounds, Brake Bonding**

## CEMENT, Disc Wheel Abrasive

Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

## CEMENT, Leather

American Leather Belting Co 1455 W Congress St Chicago Ill "Albeco" "American"
Graton & Knight Co 356 Franklin St Worcester 4 Mass "Neptune" "Royal Worcester"
Rhoads & Son J E 2100 W 11th St Wilmington 99 Del

## CEMENT, Resin Base

Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M"

## CEMENT, Rubber

Baldwin Rubber Co 366 S Boulevard E Pontiac Mich
Bell Co 411 N Wolcott Ave Chicago 22 Ill "Flare"
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio "Welltried"
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohrlastic" (Silicone)
Durkee-Atwood C 215 Seventh St N E Minneapolis 13 Minn
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio
Gross Mfg Co 1711 California St Monrovia Calif
Hollingshead Corp R M 840 Cooper St Camden N J "Whiz" "Fixtite"
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill
Magic Iron Cement Co 14215 Caine Ave Cleveland 28 Ohio
Miller Tires a Div of B F Goodrich Co 500 S Main St Akron Ohio
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Patch Rubber Co 884 W Waterloo Rd Akron Ohio "Chem"
Permatex Co 300 Broadway Huntington Station N Y
Pyroll Co 122 N Main St La Crosse Wis "Flex-O-Fix"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Western States Mfg Co 811 Main St Sioux City Ia "Western Weld"
Woodhill Chemical Sales Corp 1390 E 34th St Cleveland 14 Ohio "Duro-Plastic"
Zylos Rubber Co 1200 Firestone Parkway Akron 1 Ohio "Loxite"

**CENTER DRIVE FACING LATHES — See Lathes, Center Drive Facing**

**CENTERING MACHINES — See Machines Centering**

**CENTERLESS GRINDERS — See Machines, Grinding (Centerless)**

## CENTERS, Bench

Acme Industrial Co 200 N Laflin St Chicago 7 Ill
Barber-Colman Co 1300 Rock St Rockford Ill
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Lee Co K O Congress at First Ave S E Aberdeen S D
Sundstrand American Broach Div of Sundstrand Corp 415 W Huron St Ann Arbor Mich
Swanson-Erie Corp 814 E 8th St Erie Pa "V-Liner"
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I

**CENTERS, INDEX—See Heads, Dividing**

## CENTERS, Lathe and Grinder

Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich (Live)
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (Lathe)
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio
Ideal Industries Inc 1014 Park Ave Sycamore Ill (Live)
J & S Tool Co 87 Dorsa Ave Livingston N J (Live)
Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide)
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis (Lathe)
Royal Products 88 Union St Mineola L I N Y "Eco" "Empire" "Monarch" "Regal" "Regent" (Live)
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill (Live)
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind (Lathe)
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand" (Lathe)
Sundstrand American Broach Div of Sundstrand Corp 415 W Huron St Ann Arbor Mich
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill
Tungsten-Carbide Tool Co 26250 W 7 Mile Rd Detroit 40 Mich "TCT"
Universal Engineering Co Frankenmuth Mich
Wendt-Sonis Co Tenth & Collier Sts Hannibal Mo "W-S" (Carbide tipped)
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich
Willey's Carbide Tool Co 1340 W Vernon Highway Detroit 1 Mich

**CENTRAL CONTROL PANELS—See Panels, Central Control**

**CHAIN BLOCKS—See Block or Hoists, Chain**

**CHAIN DRIVES—See Chains, Silent (Industrial); also Chains, Timing (Auto)**

**CHAIN HOISTS—See Blocks or Hoists, Chain**

**CHAIN TIGHTENERS—See Tighteners, Chain (Industrial)**

## CHAINS, Block

Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Whitney Chain Co 237 Hamilton St Hartford 2 Conn

## CHAINS, Conveyor

Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
Fairfield Engrg Co 324 Barnhart St Marion Ohio
Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
Lebanon Drop Forge Co Avon Pa
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "Promal" "Pintle" "Link-Belt"
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich "MHS"
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill
Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio
Union Chain & Mfg Co Sandusky Ohio
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich
Webster Mfg Inc Tiffin 16 Ohio
Whitney Chain Co 237 Hamilton St Hartford 2 Conn

## CHAINS, Roller (Industrial)

Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
**MORSE CHAIN CO Ithaca N Y**
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Union Chain & Mfg Co Sandusky Ohio
Whitney Chain Co 237 Hamilton St Hartford 2 Conn

**CHAINS, SILENT (Auto)—See Chains, Timing (Auto)**

## CHAINS, Silent (Industrial)

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "Silverstreak"
**MORSE CHAIN CO Ithaca N Y**

## CHAINS, Timing (Auto)

Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Duckworth"
Cloyes Gear & Products Inc 17214 Roseland Rd NE Cleveland 12 Ohio
D & B Mfg Co 2312 S Indiana Ave Chicago 16 Ill
**DIAMOND CHAIN CO 402 Kentucky Ave Indianapolis 7 Ind**
Hoof Products Co 6543 S Laramie Ave Chicago 38 Ill
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
**LINK-BELT CO Dept 60-AIPG Prudential Plaza Chicago 1 Ill "Silverstreak"**
**MORSE CHAIN CO Ithaca N Y**
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Ramsey Products Corp 55 Broadway Menands Albany N Y
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Whitney Chain Co 237 Hamilton St Hartford 2 Conn

## CHAINS and SPROCKETS, Power Transmission

Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Cullman Wheel Co 1344 Altgeld St Chicago 14 Ill
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
**LINK-BELT CO Dept 60-AIPG Prudential Plaza Chicago 1 Ill**
**MORSE CHAIN CO Ithaca N Y "Hy-Vo"**
Philadelphia Gear Corp King of Prussia Pa
Ramsey Products Corp 55 Broadway Menands Albany N Y
Union Chain & Mfg Co Sandusky Ohio
Webster Mfg Inc Tiffin 16 Ohio
Whitney Chain Co 237 Hamilton St Hartford Conn

**CHAIRS, BUS—See Seats, Bus**

**CHAMFERING MACHINES — See Machines, Gear Tooth Chamfering and Finishing**

## CHANNELS, Glass (Felt)

Brawley Felt Co T R 272 20th St Brooklyn N Y
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Felters Co 210 South St Boston 11 Mass
Hamilton-Wade Co 52 Haverhill St Brockton Mass (Felt covered)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

## CHANNELS, Glass (Metal)

Bailey Co 21 Water St Amesbury Mass (Felt lined sole distributors to original equipment Greene Sales Co Axtell Rd Troy Mich)

## CHANNELS, Glass (Metal)—continued

**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee Gee"**
Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Dura Corp Paris Products Div Paris Ky
Excel Corp 1120 N Main St Elkhart Ind
Lange Machine Works, Henry G 156 N May St Chicago 7 Ill
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
**SCHLEGEL MFG CO 1555 Jefferson Rd Rochester 23 N Y (With pile linings)**
Standard Products Co 2130 W 110th St Cleveland 2 Ohio "Steechan" (Rubber covered)

## CHANNELS, Glass (Rubber)

Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky "Au-ve-Co"
Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Continental Rubber Works 1946 Liberty St Erie Pa
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich**
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Industrial Rubber Goods Co St Joseph Mich
Johnson Rubber Co Middlefield Ohio
Lange Machine Works Henry G 156 N May St Chicago 7 Ill "Lamacho"
Mechanical Rubber Products Co Warwick N Y
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## CHARGERS, Battery (Industrial Truck)

Berg-Gibson Mfg Co 817 E 17th St Kansas City 8 Mo
Christie Electric Corp 3410 W 67th St Los Angeles 43 Calif
Djeco Div of Djordjevic Engrg Co 1933 N Damem St Chicago 47 Ill
Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio
Exide Industrial Div Electric Storage Battery Co Rising Sun & Adams Ave Philadelphia 20 Pa
Fox Products Co 4720 N 18th St Philadelphia 41 Pa
Hertner Electric Co 12690 Elmwood Ave Cleveland 11 Ohio
Motor Generator Corp Troy Ohio

**CHARGING SYSTEMS RECTIFIERS (Auto)—See Rectifiers, AC-DC Charging System (Auto)**

**CHECK VALVES—See Valves, Check**

## CHECKS, Door (Car and Truck)

Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Graton & Knight Co 356 Franklin St Worcester 4 Mass (Car)
Hope Webbing Co P O Box 1495 Providence 1 R I (Fabric car)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland" (Truck)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Tompkins H S 188 Chambers St N Y 7 N Y (Car)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y (Car)

**CHEMICAL FIRE TANKS—See Tanks Chemical Fire**

## CHEMICALS, Electroplating

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Isobrite" (Brighteners; "Iridite" chromate; "ARP")**
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Cadmium zinc etc)
Calcine Chemical Co P O Box 61 H C Station Jersey City N J
du Pont de Nemours & Co E I Electrochemicals Dept-Chlorine Products Div Wilmington 98 Del
Hanson-Van Winkle-Munning Co Matawan N J "H-V W-M"
Harshaw Chemical Co 1945 E 97th St Cleveland 6 Ohio
Lea Mfg Co 16 Cherry Ave Waterbury 20 Conn
**METAL & THERMITE CORP 100 E 42nd St N Y 17 N Y "M & T" "Unichrome SRHS"**
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa (Brighteners)
Seymour Mfg Co 15 Franklin St Seymour Conn
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich
**UDYLITE CORP 1651 E Grand Blvd Detroit 11 Mich "Udybrite" (Cadmium brighteners)**

**CHEMICALS, METAL CLEANING — See Cleaners, Metal**

## CHEMICALS, Pickle Control

Amchem Products Inc Brookside Ave & Reading RR Ambler Pa "Rodine"
Oakite Products Inc 19 Rector St N Y N Y

**CHEMICALS, RUST PREVENTING AND REMOVING—See Compounds, Rust Preventing and Removing**

**CHILLING MACHINES, INDUSTRIAL — See Machines, Chilling (Industrial)**

**CHIP SEPARATORS—See Separators, Chip**

**CHOKE ADAPTERS, HAND—See Adapters, Choke (Hand)**

**CHOKE CONTROLS (AUTOMATIC) — See Controls, Carburetor Choke (Automatic)**

**CHROME PLATING ADDITIVES—See Additives, Chrome Plating**

**CHROMIUM ALLOYS—See Alloys, Chromium**

**CHUCKING GRINDERS — See Machines, Grinding (Chucking)**

**CHUCKING LATHES—See Lathes, Chucking**

**CHUCKING MACHINES — See Machines, Chucking (Multiple Spindle)**

## CHUCKS, Air Line

Buck Tool Co 2015 Schippers Lane Kalamazoo Mich "Adjust-Tru"
Cushman Chuck Co 806 Windsor St Hartford 2 Conn
Erickson Tool Co 34350 Solon Rd Solon Ohio
Logansport Machine Co 806 Center Ave Logansport Ind "Logan"
**S-P MFG CORP 30201 Aurora Rd Solon Ohio**
Skinner Chuck Co 95 Edgewood Ave New Britain Conn
Union Mfg Co 296 Church St New Britain Conn

## CHUCKS, Collet

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Buck Tool Co 2015 Schippers Lane Kalamazoo Mich "Adjust-Tru"
Cushman Chuck Co 806 Windsor St Hartford 2 Conn
Erickson Tool Co 34350 Solon Rd Solon Ohio
Hardinge Bros Inc 1418 College Ave Elmira N Y
Jacobs Mfg Co West Hartford 10 Conn "Rubber-Flex"
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "J & L Modern-Magic"
Procunier Safety Chuck Co 18 S Clinton St Chicago 6 Ill
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
**S-P MFG CO 30201 Aurora Rd Solon Ohio**
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill
Seibert & Sons Inc 1008 E 24th St Chenoa Ill
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Sutton Tool Co 306 Magnolia St Sturgis Mich
Universal Engineering Co 126 N Main St Frankenmuth Mich
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

## CHUCKS, Drill

Do All Co 254 N Laurel Ave Des Plaines Ill
Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y
G M Co Mfg Co 13-08 43rd Ave Long Island City L I N Y
Jacobs Mfg Co West Hartford 10 Conn
Kett Tool Co 5065 Madison Rd Cincinnati 27 Ohio
Lee Co K O Congress at First Ave S E Aberdeen, S D
McCrosky Tool Corp S Main St Meadville Pa "Wizard"
Millers Falls Co Greenfield Mass
Oneida Machine Tool Corp 2600 E Walnut St Oneida N Y "Westcott"
Pioneer Aluminum Inc 5251 W Imperial Highway Los Angeles 45 Calif
Procunier Safety Chuck Co 18 S Clinton St Chicago 6 Ill
**S-P MFG CORP 30201 Aurora Rd Solon Ohio**
Scully-Jones & Co 1977 S Rockwell St Chicago Ill
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Supreme Products Corp 2222 S Calumet Ave Chicago 16 Ill
Waukesha Cutting Tools Inc Midland & Pearl Sts Waukesha Wis
Yankee Tools Inc Div Stanley Tools American St & Lehigh Ave Philadelphia 33 Pa

## CHUCKS, Gear Holding

Erickson Tool Co 34350 Solon Rd Solon Ohio
Garrison Machine Works, Inc 515 Bannock St Dayton 4 Ohio (Pitch line control for spur, helical, internal, bevel, herringbone and cluster gears)
Woodworth Co N A 1300 E Nine Mile Rd Detroit 20 Mich

## CHUCKS, Lathe

Buck Tool Co 2015 Schippers Lane Kalamazoo Mich "Adjust-Tru"
Cushman Chuck Co 804 Windsor St Hartford 2 Conn
Gisholt Machine Co 1245 E Washington St Madison 10 Wis
Jacobs Mfg Co West Hartford 10 Conn
**L-W Chuck CO 24 S St Clair St Toledo 4 Ohio**
Leavitt Machine Co 110 E River St Orange N J "Dexter"
Lee Co K O Congress at First Ave S E Aberdeen S D
Oneida Machine Tool Corp 2600 E Walnut St Oneida N Y "Westcott"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Royal Products 88 Union St Mineola L I N Y "Empire" "Royal"
Skinner Chuck Co 95 Edgewood Ave New Britain Conn
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Thomas Hoist Co 20 S Hoyne Ave Chicago 12 Ill "Barker"
Union Mfg Co 296 Church St New Britain Conn
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

## CHUCKS, Magnetic

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Buck Mfg Co 1355 N Tenth St San Jose Calif
DoAll Co 254 N Laurel Ave Des Plaines Ill (Electro-magnetic)
**L-W CHUCK CO 24 S St Clair St Toledo 4 Ohio**
Sundstrand American Broach Div of Sundstrand Corp 415 W Huron St Ann Arbor Mich "Sundstrand Power-Grip"
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I "Superpower" (Electric and permanent)

## CHUCKS, Milling Machine

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Buck Tool Co 2015 Schippers Lane Kalamazoo Mich "Adjust-Tru"
Skinner Chuck Co 95 Edgewood Ave New Britain Conn
Union Mfg Co 296 Church St New Britain Conn

**CHUCKS, PNEUMATIC — See Chucks, Air Line**

## CHUCKS, Tap

Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
Erickson Tool Co 34350 Solon Rd Solon Ohio
Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y
Jacobs Mfg Co West Hartford 10 Conn "Rubber-Flex"
McCrosky Tool Corp S Main St Meadville Pa
Procunier Safety Chuck Co 18 S Clinton St Chicago 6 Ill.
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill

## CHUTES

Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo
Chain Belt Co 1733 W Bruce St Milwaukee 4, Wis "Rex"

Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Link-Belt Co Dept 60-A1PG Prudential Plaza Chicago 1 Ill (Steel)
Logan Co Cabel St Louisville 16 Ky
Mathews Conveyer Co 102 Tenth St Elkwood City Pa

CIGAR OR CIGARETTE LIGHTERS — See Lighters, Cigar or Cigarette (Electric)

CIRCLE CUTTERS — See Cutters, Washer and Gasket

CIRCUIT BREAKERS — See Breakers, Circuit

CIRCUIT TESTING INSTRUMENTS—See Instruments, Electrical Circuit Testing

## CIRCUITS, Printed

**TAYLOR FIBRE CO Norristown 49 Pa**

CIRCULAR SAW BLADES—See Blades, Saw (Circular)

CIRCULAR SAWING MACHINES—See Machines, Sawing (Electric)

CLAD METAL STRIP STEEL — See Steel, Clad Metal (Strip)

## CLAMPS, Battery Hold Down

American Motor Products Co Fond du Lac Wis
Berkson Products Inc 217 N Desplaines St Chicago 6 Ill
Bishman Mfg Co Route 2 Osseo 26 Minn
Champ-Items 6191 Maple Ave St Louis 14 Mo
Crescent Co 20 Central Ave Pawtucket R I
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
Kravex Mfg Corp 634 Prospect Pl Brooklyn N Y
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Murray Corp E Joppa Rd Towson 4 Md
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple A" "Silver Beauty"
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo

## CLAMPS, Belt

Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del

## CLAMPS, Hose

Aeroquip Corp Marman Div 11214 Exposition Blvd Los Angeles 64 Calif "Marman"
American Stamping Co 310 E Burnham St Battle Creek Mich
Anchor Coupling Co 342 N 4th St Libertyville Ill
Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich
Breeze Corps Inc 700 Liberty Ave Union N J "Aero-Seal"
Brewer-Titchener Corp 115 Pt Watson St Cortland N Y
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Colorado Fuel & Iron Corp Wickwire Spencer Steel Div 575 Madison Ave N Y 22 "C F & I-Wickwire" (Heater)
**CORBIN HOSE CLAMP Div American Hardware Corp 102 Washington St New Britain Conn**
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
**EATON MFG CO Reliance Div 25 Charles Ave S E Massillon O**
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Evertite" (Radiator "Everhot" heater)
**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa**
Hunt Valve 1913 E Pershing St Salem Ohio "Quick as Wink"
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y "Hy-Gear" "Ideal" "Snaplock" "Airline" "Wraplock" "Auto-Lock"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Ingersoll-Rand Co 11 Broadway New York N Y
Loock & Co R J 343 N Gay St Baltimore Ind "Lightnin"
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Murray Corp E Joppa Rd Towson 4 Md "Gold Seal" "Universal" "Wire Grip" "Lock-Seal" "Strap Seal"
Perfect Parts Inc 43 W 23rd St New York 10 N Y
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Schrader's Son Div of Scovill Mfg Co A 470 Vanderbilt Ave Brooklyn 38 N Y "Trutest"
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Tinnerman Products Inc 8700 Brookpark Rd Cleveland Ohio "Speed Clamps"
Titeflex Inc Hendee St Springfield 4 Mass (High temperature)
Turner Mfg Co 404 W Superior St Kokomo Ind
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Wittek Mfg Co 4305 W 24th Place Chicago 23 Ill "Noc-Out" "Sure-Tite" "Strap-Tite"

## CLAMPS, Muffler

Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y

## CLAMPS, Toggle

(For holding production articles in jig or fixture)

Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill "Danly Kwik-Klamp"
**DETROIT STAMPING CO 350 Midland Ave Detroit 3 Mich "De-Sta-Co"**
Industrial Specialties Inc 22930 Sherwood Ave Warren Mich "E & E" "I S I"
Lapeer Mfg Co 3056 Davison Rd Lapeer Mich "Knu-Sine"
Wolverine Tool Co 1480 E Woodbridge St Detroit 7 Mich

## CLAMPS, Welders'

Adjustable Clamp Co 425 N Ashland Ave Chicago 22 Ill "Jorgensen"
**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42 St New York 17 N Y**
Aronson Machine Co Arcade N Y (Magnetic)
Chicago Boiler Co 1965 Clybourn Ave Chicago 14, Ill "Red Head"
Cincinnati Tool Co 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave" (Oxy-acetylene)
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich (Oxy-acetylene and arc)
Grand Specialties Co 3113 W Grand Ave Chicago 22 Ill
Lapeer Mfg Co 3056 Davison Rd Lapeer Mich "Knu-Vise"
Littletown Hardware & Foundry Charles St Littlestown Pa
Peterson Mfg Co De Witt Nebr "Vise-Grip"
Tweco Products Inc Boston at Mosley Sts Wichita 1 Kansas
Twistite Co 300 E Fulton St Grand Rapids 2 Mich
Williams & Co., J H 400 Vulcan St Buffalo 7, N Y

CLEANER PARTS, WINDSHIELD — See Parts, Windshield Wiper

## CLEANERS, Air Carburetor (Auto and Truck)

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**
**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**
Badger Mfg Corp 1501 W Polk St Chicago 7 Ill
Baldwin Mfg Co J A P O Box 656 Kearney Nebr
Cyclone Filter Corp 4401 W North Ave Chicago 39 Ill
Dollinger Corp 20 Centre Pk Rochester 3 N Y "Staynew"
Donaldson Co 666 Pelham Blvd St Paul 14 Minn
Farr Co 2301 E Rosecrans Ave El Segundo Calif "Roto-Pamic"
**FRAM CORP Pawtucket Ave Providence 16 R I**
Lee Filter Corp Edison N J
**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J**
Purolator Products Inc Wayne Div Wayne Mich
United Specialties Div Novo Industrial Corp 9705 Cottage Grove Ave Chicago 28 Ill "Tri-Phase" "United"
Vortox Co 121 S Alexander Ave Claremont Cal (Oil bath)

## CLEANERS, Air (Crankcase Breather)

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**
**FRAM CORP Pawtucket Ave Providence 16 R I**
Purolator Products Inc Wayne Div Wayne Mich

## CLEANERS, Air (Machinery)

(For installation on stationary engines, compressors, etc.)

(See also Filters, Air Line)

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**
Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo
Logan Engrg Co 4901 W Lawrence Ave Chicago 30 Ill "Aridifier"
Norgren Co C A 222 Santa Fe Drive Denver 9 Colo

## CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil and Grease Removing)

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich
Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohio "Beacon Brand"
Allied Research Products Inc 4004 E Monument St Baltimore 5 Md
**AMCHEM PRODUCTS INC Brookside Ave & Reading RR Ambler Pa "Deoxidine" "Ridoline" "Duridine" "Ridosol"**
Anti-Rust Corp., 315 E 91st St New York N Y "Rozene"
Bruce Products Corp 500 N West St Howell Mich "Bruko"
Brulin & Co 2939 Columbia Ave Indianapolis 7 Ind "Brulin's Rust Scale Solvent"
Buchanan Chemical Co C G 3112 Portsmouth Ave Cincinnati 8 Ohio "Bu-Co"
Calcine Chemical Co P O Box 61 H C Station Jersey City N J "Calsol"
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa "Saf-T-Chlor"
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill "D C"
Cowles Chemical Co 7016 Euclid Ave Cleveland 3 Ohio
Dearborn Chemical Co Merchandise Mart Plaza Chicago 54 Ill
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Detrex" "Perm-A-Clor" "Triad"**
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich
Diversey Corp 212 W Monroe St Chicago Ill
**DOW CHEMICAL CO Midland Mich**
Du Bois Chemicals Inc Seventh & Broadway Cincinnati 2 Ohio "Dyna-Sprex" "Sprex AC" "Blast"
du Pont de Nemours & Co E I Electrochemicals Dept - Chlorine Products Div Wilmington 98 Del
du Pont de Nemours & Co E I Industrial & Biochemicals Dept Wilmington 98 Del "Duclean" (Alkaline and acid)
Enthone Inc 442 Elm St New Haven 11 Conn "Alumon" "Enthol" "Etchalume"
Farrelloy Co 1243 N 26th St Philadelphia 21 Pa "Farrellok"
Fine Organics Inc 211 E 19th St N Y 3 N Y "FO"
Graymills Corp 3705 N Lincoln Ave Chicago 13 Ill
Hanson-Van Winkle-Munning Co Matawan N J "Matawan" "H-W-M"
Homestead Valve Mfg Co Hypressure Jenny Div Narrows Run Rd Coraopolis Pa "Hypressure Jenny"
Hooker Chemical Corp 27 Iroquois St Niagara Falls N Y "Virgo" "Hooker" "Nialk"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Hougton Clean" "Cerfak"
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Industro"
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa
Kelite Corp 1250 N Main St Los Angeles 12 Calif
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Klem" "Minit Kote"
Kolene Corp 12890 Westwood Ave Detroit 23 Mich
Krembs & Co 669 W Ohio St Chicago 10 Ill "Removene"
Lavo Co of America 1243 N 5th St Milwaukee 12 Wis "Mirifik"
Lord Chemical Co 2068 S Queens St York Pa "Lorco"
Magnus Chemical Co 185 South Ave Garwood N J
Magnuson Products Corp 50 Court St Brooklyn 1 N Y "Permar"
Manpro Corp 1360 Hilton Rd Ferndale 20 Mich
Mitchell-Bradford Chemical Co Wampus Lane Milford Conn

## CLEANERS, Metal—continued

Neilson Chemical Co 2300 Gainsboro St Ferndale Detroit 20 Mich "Alumiprep" "Emulsoprep" "Metalprep" "Prep-N-Cote"
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich "Alkalume" "Northwest" "Jet"
**OAKITE PRODUCTS INC 19 Rector St N Y 6 N Y "Oakite Chromi Coat" "Oakite CrysCoat"**
Panther Chemical Co P O Box 711 Fort Worth Tex
Parker Rust Proof Co 2177 E Milwaukee Ave Detroit 11 Mich "Parco"
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa "Penn Drake"
Philadelphia Quartz Co 1146 Public Ledger Bldg Sixth & Chestnut Sts Philadelphia 6 Pa "Metso"
Ransohoff Inc N N Fifth St & Ford Blvd Hamilton Ohio (Ultrasonic)
Siloo Inc 9 E 45th St N Y 17 N Y "Petisol"
Turco Products Inc 24600 S Main St North Wilmington Calif
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y
Wilbur & Williams Co 650 Pleasant St Norwood Mass
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis "Krome Kote"
Wyandotte Chemicals Corp J B Ford Div Wyandotte Mich "Expray" "Lectrite" "Maxamp"

**CLEANERS, OIL—See Filters, Fuel (For Diesel Engines); also Filters, Cutting Oil; also Filters, Oil (For Attaching to Engines)**

## CLEANERS, Vacuum (Industrial)

Akro-Mils Inc 820 E Market St Akron 5 Ohio "Wonder Air Tank"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Brauer Electric Mfg Co 5100 Ravenswood Ave Chicago 40 Ill "Tornado"
Choldun Mfg Corp 331 East St New Haven Conn "Power-Vac"
Clarke Floor Machine Co 30 E Clay Ave Muskegon Mich
Clements Mfg Co 6650 S Narragansett Ave Chicago 38 Ill "Cadillac"
Doyle Vacuum Cleaner Co 225 Stevens St SW Grand Rapids 2 Mich "Doyle Vac-It"
General Floorcraft Inc 3630 Rombouts Ave N Y 66 N Y "General E-Con-O-Vac"
Handling Devices Co 34 Concord Lane Cambridge 38 Mass "Floormobile"
Hild Floor Machine Co 1217 W Washington Blvd Chicago 7 Ill
Holub Industries Inc 413 DeKalb Ave Sycamore Ill "Hi"
Ideal Industries Inc 1014 Park Ave Sycamore Ill
Invincible Vacuum Cleaner Mfg Co 14th & Davis Sts Dover Ohio
Kent Co 338 Canal St Rome N Y
Lamson Corp 100 Lamson St Syracuse 1 N Y
M-M-A Inc Coho Bldg Lancaster Pa "Little Windy (Air operated)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Multi-Clean Products Inc 2277 Ford Parkway St Paul 16 Minn
National Super Service Co 1946 N 13 St Toledo Ohio "Super"
Premier Co 755 Woodlawn Ave St Paul 16 Minn
Spencer Turbine Co 486 New Park Ave Hartford 6 Conn
Thompson & Sons Inc 8130 W 47th St Lyons Ill "Thompson Mobile-Vac"

**CLEANERS, WINDSHIELD — See Wipers, Windshield**

## CLEATS, Fibre Wiring

Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del
Wilmington Fibre Specialty Co New Castle Del

**CLEVIS PINS — See Pins, Yoke**

**CLIP BOLTS — See Bolts, Clip**

**CLIPS, BATTERY HOLD DOWN — See Clamps, Battery Hold Down**

## CLIPS, Cable and Tubing (Auto)

Akron-Selle Co, High & Chestnut Sts Akron 11 Ohio
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich "Arco"
Barcy-Nicholson Co 8100 Joy Rd Detroit 4 Mich
Brewer-Titchener Corp 115 Pt Watson St Cortland N Y
Carr Fastener Co 21 Ames St Cambridge 42 Mass "Dot"
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill
Gits Bros Mfg Co 1846 S Kilborn Ave Chicago 23 Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Holub Industries Inc 4134 DeKalb Ave Sycamore Ill "Hi"
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis
Prestole Corp 1351 Miami St Toledo 5 Ohio
**TINNERMAN PRODUCTS INC 8700 Brookpark Rd Cleveland 1 Ohio "Speed Clips"**
Whitehead Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich
Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

## CLIPS, Electrical Test (Industrial)

(For testing electrical circuits at any point without removing insulation from wires or disconnecting)

Frankel Connector 27 Vestry St N Y 13 N Y
Mueller Electric Co 1557A 31st St Cleveland 14 Ohio
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y

## CLIPS, Fuse (Industrial)

Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Ideal Industries Inc 1014 Park Ave Sycamore Ill

## CLIPS, Spring (Auto)

(See also Forgings)

Brown Corp, 213 Bellevue Ave Syracuse, N Y
Champ-Items Inc 6191 Maple Ave St Louis Mo
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
Davis Auto Equipment Co 119 N 3rd St Reading Pa
Handy Button Machine Co 2255 S Rockwell St Chicago 8 Ill (Upholstery)
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander"
Prestole Corp 1351 Miami St Toledo 5 Ohio
Service Spring Co 701 St Paul St Indianapolis 6 Ind "Hendrix"
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill
Thompson-Bremer & Co 228 N La Salle St Chicago 1 Ill "Everlock"
Triangle Auto Spring Corp Maloney Rd & B & O RR Dubois Pa
Union Forging Co 500 North St Endicott N Y

**CLIPS, TRIMMERS—See Fasteners, Molding and Trim**

## CLOCKS (Auto)

Auto Clock Div Hamilton Watch Co Lancaster Pa "Hamilton" (Sole distributors to automotive industry Getsinger-Fox Co 1417 Fisher Bldg Detroit 2 Mich)
Borg Clock Div Amphenol-Borg Electronics Corp 902 Wisconsin St Delavan Wis (Electric and hand wound)
Elgin National Watch Co 107 National St Elgin Ill
**KING-SEELEY DIV King-Seeley Corp 315 S First St Ann Arbor Mich "Motochron"**
Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass
Westclox Div of General Time Corp La Salle Ill (Electric and spring wound)

**CLOSURES, ADJUSTABLE (Plug Type)—See Plugs, Testing (Adjustable)**

## CLOTH, Abrasive

(See also Paper, Abrasive)

Behr-Manning Corp 6118 Howe St Troy N Y "Adalox" "Bear" "Durite" "Metalite" "Resinall" "Resinized" "Screen-Bak" "Speed-Wet" (Also garnet cloth)
Carborundum Co Buffalo Ave Niagara Falls N Y "Aloxite"
Clover Mfg Co 327 Main St Norwalk Conn "Clover" "Color-Stripe" "Rex Stripe"
Mid-West Abrasive Co 510 S Washington St Owosso Mich
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3-M" "Crystal Bay" "Three-M-Ite" "Wetordry"
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill "Colossus"

**CLOTH, COATED FABRIC — See Fabrics Coated, Cloth**

**CLOTH, PLASTIC—See Fabric, Plastic**

**CLOTH, SEAT COVER—See Fabrics, Seat Cover; also Fabric, Plastic (Upholstery and Seat Cover)**

## CLOTH, Tracing

**KEUFFEL & ESSER CO 300 Adams St Hoboken N J**

**CLOTH, UPHOLSTERY—See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery, etc.); also Fabrics, Upholstery (Woven Cloth)**

## CLOTH, Wire

(For use in strainers, horn screen, etc.)

Buffalo Wire Works Co 506 Terrace Buffalo 2 N Y
Cambridge Wire Cloth Co Cambridge Md
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn (Brass and copper)
Cleveland Wire Cloth & Mfg Co 3573 E 78th St Cleveland 5 Ohio
Cyclone Fence Dept American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio "Red Tag"
Darby & Son Inc Edw J 1517 Germantown Ave Philadelphia 22 Pa "Pennsylvania"
Jelliff Mfg Corp C O Pequot Rd Southport Conn
Michigan Wire Cloth Co 2100 Howard St Detroit 16 Mich
National-Standard Co Eighth & Howard Sts Niles Mich
Newark Wire Cloth Co 351 Verona Ave Newark 4 N J
**REYNOLDS WIRE Div National-Standard Co 800 E 2nd St Dixon Ill (Steel brass bronze copper aluminum nickel stainless steel monel tinned and galvanized)**
Rolock Inc 1350 Kings Highway Fairfield Conn
Smith Co John P 433 Chapel St New Haven 7 Conn
Tyler Co W S 3615 Superior Ave Cleveland 14 Ohio
Wire Cloth Products Inc 2801 Congress St Expressway Bellwood Ill

**CLOTH CUTTING MACHINES — See Machines, Fabric Cutting**

**CLOTH DRILLING MACHINES — See Machines, Fabric Drilling**

**CLUTCH PARTS — See Bearings, Clutch Throwout; Controls, Clutch; Corks, Brake and Clutch Insert; Discs, Clutch; Facings, Clutch; Parts, Clutch; Plates, Clutch (Pressure); also Shafts, Transmission & Clutch**

## CLUTCHES, Auto, Truck and Bus

Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill
**BORG & BECK Div Borg-Warner Corp 6558 S Menard Ave Chicago 38 Ill "B & B"**
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer" (Truck and bus)**
Eaton Mfg Co Dynamatic Div 3307 14th Ave Kenosha Wis "Dynamatic" (Eddy-current)
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio
**LIPE-ROLLWAY CORP 806 Emerson Ave Syracuse 1 N Y (Heavy duty)**
**LONG MFG Div Borg-Warner Corp 12501 Dequindre St Detroit Mich**
**ROCKFORD CLUTCH Div Borg-Warner Corp 1319 18th Ave Rockford Ill "Morlife" "Rockford"**

## CLUTCHES, Auto (Fan and Accessory Drive)

Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind (Fan)
Warner Electric Brake & Clutch Co Beloit Wis

## CLUTCHES, Industrial

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Semi-finished eddy current)
Automatic Steel Products Inc Mercury Clutch Div 1201 Camden Ave S W Canton 6 Ohio "Mercury"
Auto Specialties Mfg Co 643 Graves St St Joseph Mich "Ausco"
Brown Engineering Co 131 N 3rd St Reading Pa "Mule Pull"
Cleveland Punch & Shear Works Co 3917 St Clair Ave Cleveland Ohio
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis "C-H" (Magnetic)
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Dodge Mfg Corp 500 Main St Mishawaka Ind "Air-Grip" "Diamond D" "Rolling Grip"
Eaton Mfg Co Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic" (Eddy-current; "Dyna-TorQ" magnetic friction)

Eclipse Machine Div Bendix Corp Elmira N Y "Elmag" (Electro-magnetic)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Federal Seal & Gear Corp 522 N Krueger St Kendallville Ind "Kendallmatic"
Funk Mfg Co 1211 W 12th St Coffeyville Kans
Hilliard Corp 113 W 4th St Elmira N Y
Industrial Clutch Corp 515 Frederick St Waukesha Wis (Air mechanical and hydraulic)
Industrial Metal Products Corp 3417 W St Joseph St Lansing 1 Mich "Hydra-Disc" (Hydraulic clutch-brake)
Johnson Machine Co Carlyle Main St Manchester Conn "Maxitorq"
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Minster Machine Co 240 W Fifth St Minster Ohio
**ROCKFORD CLUTCH DIV Borg-Warner Corp 1319 18th Ave Rockford Ill "Rockford" (Over-center "Pullmore")**
Salsbury Corp 1161 E Florence Ave Los Angeles 1 Calif
Stearns Electric Corp 120 N Broadway Milwaukee 2 Wis (Electro-magnetic)
**TWIN DISC CLUTCH CO 1328 Racine St Racine Wis (Air electric hydraulic and mechanical)**
V-Belt Clutch Co 418 N Western Ave Los Angeles 4 Calif "Bal-Lok"
Vickers Inc Electric Products Div 1815 Locust St St Louis 3 Mo "Magneclutches" (Magnetic particle)
Warner Electric Brake & Clutch Co Beloit Wis (Electric; also clutch-brake)

## CLUTCHES, Overrunning

Formsprag Co 23601 Hoover Rd Warren Mich "Formsprag" "Rev-Lok"
Hilliard Corp 113 W Fourth St Elmira N Y
**MORSE CHAIN CO Ithaca N Y**
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill (Sprag type)

## COATINGS, Protective (Metal Parts)

**(Transparent chemical coating to protect metal parts from corrosion)**

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Irilac"**
**AMCHEN PRODUCTS INC Brookside Ave & Reading RR Ambler Pa "Alodine" "Granodine" "Thermoil - Granodine" "Duridine"**
Auburn Plastics Inc McMaster St Auburn N Y
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich "Arco"
Daubert Chemical Co 4700 S Central Ave Chicago 38 Ill
Dennis Chemical Co 2701 Papin St St Louis 3 Mo "Perma-Skin"
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich
Heet Div of De Mert & Dougherty Inc 5000 W 41st St Chicago 50 Ill "Cleeron"
Kelite Corp 1250 N Main St Los Angeles 12 Calif
Krylon Inc Ford & Washington Sts Norristown Pa "Krylon Rust Veto"
Lion Oil Co Lion Oil Bldg El Dorado Ark "Nokorode"
Magic Iron Cement Co 14215 Caine Ave Cleveland 28 Ohio
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3M"
**OAKITE PRODUCTS INC 19 Rector St N Y N Y**
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Thick-Coat"
Polymer Corp 2120 Fairmont Ave Reading Pa "Whiriclad"
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Acra Seal"
Regal Air Corp 500 5th Ave New York 18 N Y "Re Glo"
Witco Chemical Co 75 E Wacker Drive Chicago 1 Ill
Woodhill Chemical Sales Corp 1390 E 34th St Cleveland 14 Ohio "Duro-Plastic"

**COATINGS, UNDERBODY — See Insulation, Heat and Sound (Liquid)**
**COAT RAILS—See Rails, Robe or Coat**
**COBALT, CHROMIUM & TUNGSTEN CUTTING ALLOYS—See Alloys, Cutting**

## COCKS, Pet (Drain, Gasoline, Air, Etc.)

**(See also Plugs, Crankcase Drain; also Valves, Air Tank Drain (Automatic))**

Acme Air Appliance Co 205 Newman St Hackensack N J (Drain)
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich "Kantleak"
Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio (Drain)
Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich (Drain)
Consolidated Brass Co Matthews N C "ConBraCo"
Dole Valve Co 6201 Oakton St Morton Grove Ill
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Lincoln Brass Works 2067 12th St Detroit 16 Mich
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Lunkenheimer Co Beekman St & Waverly Ave Cincinnati 14 Ohio
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind

**COCKS, RESERVE FUEL—See Valves, Two-Way, Three-Way and Four-Way (Tank)**
**COILING MACHINES, SPRING — See Machines, Coiling (Spring)**
**COIL LOCKS—See Locks, Ignition**
**COIL PARTS—See Parts, Magneto, Coil and Distributor**
**COIL STOCK STRAIGHTENERS — See Straighteners, Coil Stock**

## COILS, Field

Arrow Armature Co 15 Fordham Road Boston 34 Mass
General Armature & Mfg Co Box 370 Lock Haven Pa
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y

## COILS, Ignition

**(See also Systems, Ignition [Complete])**

American Motor Products Co Fond du Lac Wis "Ampco"
Andrew Parts Mfg Co 32-70 31st Long Island City 6 N Y
Blackstone Mfg Co Stan-Test Div 4630 W Harrison St Chicago 44 Ill "K-W"
**DELCO-REMY Div General Motors Corp 2401 Columbus Ave Anderson Ind**
Echlin Mfg Co U S Route 1 Branford Conn
Electric Autolite Co Toledo Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Guaranteed Parts Co Seneca Falls N Y "GP"
**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**
Kem Mfg Co 20-21 Wagaraw Rd Fairlawn N J
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
New York Coil Co 42 Second Ave Phoenixville Pa "Nyco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y "PPP"
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 3718 Northern Blvd Long Island City N Y "Blue Streak" "Standard"
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Tungsten Contact Mfg Co 7311 Cottage Ave North Bergen N J
Valley Forge Products Co 370 19th St Brooklyn 15 N Y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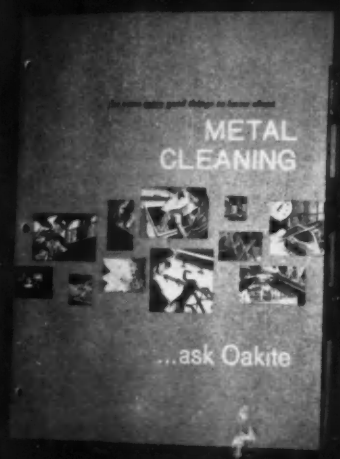


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## COILS, Ignition—continued

Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wico Ignition Div Globe-Union Inc West Springfield Mass

**COIL TESTERS—See Instruments, Electrical Circuit Testing**

**COIL WINDINGS, IGNITION—See Windings, Ignition Coil**

**COLLECTORS, DUST—See Systems, Dust (Exhaust and Collector)**

## COLORS (Paint Pigment)

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich "Ditz-Lac"
Harshaw Chemical Co 1945 E 97th St Cleveland 6 Ohio
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

**COLUMBIUM FORGINGS—See Forgings, Columbium**

**COLUMBIUM STEEL—See Steel, Columbium**

**COMBUSTION ANALYZERS—See Analyzers, Combustion**

## COMMUTATORS, Electric Motor

Cameron Electrical Mfg Co 63 Main St Ansonia Conn
Electric Materials Co Clay & Washington Sts North East Pa
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Simmons Mfg Co Ashland Ohio (For Ford and Chevrolet cars)
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill (Small)
Toledo Commutator Co 1101 S Chestnut St Owosso Mich "Homer" "Toledo"

## COMPARATORS

American Optical Co 14 Mechanic St Southbridge Mass (Optical)
Ames Co B C 12 Ames St Waltham 54 Mass
Bausch & Lomb Optical Co 14161 Bausch St Rochester 2 N Y
Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Cleveland Instrument Co 6220 E Schaaf Rd Cleveland 31 Ohio "Indi-Ac"
Comtor Co 47 Farwell St Waltham Mass "Comtorplug" (Internal diameter)
Covel Mfg Co Graham Ave Benton Harbor Mich (Optical)
Federal Products Corp 1144 Eddy St Providence 1 R I
Freeland Gage Co 9940 Freeland Ave Detroit 27 Mich (Air)
Hanlo Gage Co 16150 Hubbell Ave Detroit 35 Mich
Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn (Thread)
Jones & Lamson Machine Co 523 Clinton St Springfield Vt (Optical)
Merz Engineering Co 200 S Harding St Indianapolis 7 Ind
Metron Instrument Co 432 Lincoln St Denver 3 Colo (Electric)
Michigan Tool Co 7171 McNichols Rd E Detroit 12 Mich (Gear)
Mueller Laboratory & Gages Co 1052 N Allen Ave Pasadena Calif
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Air-O-Limit" "Electro-limit" "Tri-Roll"
R C A Industrial & Machine Tool Automation 12605 Arnold St Detroit 39 Mich (Electronic)
Scherr-Tumico 200 Lafayette St New York 12 N Y
Sheffield Corp 721 Springfield St Dayton 1 Ohio "Precisionaire" (Air)
Standard Gage Co Poughkeepsie N Y
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket Rd "Veracheck"
Vinco Corp 9111 Schaefer Highway Detroit 28 Mich

## COMPENSATORS, Motor Starting (Industrial)

Electric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

**COMPOUNDS, ANTI-FREEZE — See Anti-Freeze**

## COMPOUNDS, Battery Sealing

Mitchell-Rand Mfg Corp 51 Murray St New York N Y "Rubberseal"

## COMPOUNDS, Brake Bonding

Miley Co L J 18 S Sangamon St Chicago 7 Ill
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M"

## COMPOUNDS, Buffing and Polishing (Metal)

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Iridite"**
Bruce Products Corp 500 N West St Howell Mich "Livac" "Stavac" "Trivac"
Buckingham Products Co 14100 Fullerton Ave Detroit 27 Mich
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill "D C"
Dixon Inc William 32 E Kinney St Newark 1 N J
Engis Equipment Co 431 S Dearborn St Chicago 15 Ill "Hyprez Diamond"
Hanson-Van Winkle-Munning Co Matawan N J "H-VW-M"
Kocour Co 4800 S St Louis Ave Chicago 32 Ill
Lea Mfg Co 16 Cherry Ave Waterbury 20 Conn "Lea Compound" "Lea - Ronal" "Learok" "Lea Liquabrake"
Lord Chemical Co 2068 S Queen St York Pa "Lorco"
Matchless Metal Polish Co 840 W 49th Place Chicago Ill "Matchless" "Nikolime" "Gaylime" "White Diamond"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Park-O"
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich "Marvel" "Cutmore" "Hi-Lustre" "Fast Finish" "White Rose" "Plasticut" "Plasticolor" "Tampico" "Greaseless" "Brush Finish"
Swavely Chemical & Varnish Works 831 Page St Flint 5 Mich "Smooth Glaze"

## COMPOUNDS, Case Hardening

American Cyanamid Co Industrial Chemicals Div Process Chemicals Dept 30 Rockefeller Plaza New York 20 N Y "Aerocarb" "Aerocase"
Buchanan Chemical Co C G 3112 Portsmouth Ave Cincinnati 8 Ohio "Case-Hardo" "Ferro-Case"
du Pont de Nemours & Co E I Electrochemicals Dept - Chlorine Products Div Wilmington 98 Del "Cyanoflake" "Cyanegg" "Cyanogran" "Cyanobrik" (Sodium cyanide)
Holden Co F 14341 Schaefer Highway Detroit 27 Mich
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Pearlite" "Quicklight" "Perliton" (Carburizing)
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Woodside's" "Kwick Kase" "Klean Heat"
Steel Treating Equipment Co 9300 Southern Ave Dearborn Mich "Steco" & "Thermo"

## COMPOUNDS, Core

Delta Oil Products Corp 6263 N Teutonia Ave Milwaukee 9 Wis
Federal Foundry Supply Div Archer-Daniels-Midland Co 2191 W 110th St Cleveland 2 Ohio "Star" (Paste; "Super" & "Graph-Plast" wash)
Foundry Services Inc P O Box 8728 Cleveland 35 Ohio
Hill & Griffith Co 1262 State St Cincinnati 4 Ohio "Ebony" "Linoline"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Hy-ten"
Obermayer Co S 2563 W 18th St Chicago 8 Ill "Esso"
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich "Ignicoat" "King Kore Kompound" "Slick Seal" "Tri-Cote"
Superior Graphite Co 1531 First National Bank Bldg Chicago 3 Ill "Molduko"

## COMPOUNDS, Cutting Fluid

Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohio "Kelcotene" "Kelkool" & "Crystal"
Allison-Campbell Div of American Chain & Cable Co 929 Connecticut Ave Bridgeport 2 Conn "Campbellene"
Anderson Oil & Chemical Co Quarry Lane Portland Conn "Lusol" "Shamrock"
Bruce Products Corp 500 N West St Howell Mich "Bru-Kut"
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich "Cycleweld"
Cincinnati Milling Machine Co Products Div 4701 Marburg Ave Cincinnati 9 Ohio "Cimcool"
Cities Service Oil Co (Pa) 60 Wall Tower New York 5 N Y "Chillo"
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
Delta Oil Products Corp 6263 N Teutonia Ave Milwaukee Wis
DoAll Co 254 N Laurel Ave Des Plaines Ill
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y "Kutwell" "Dortan" "Pennex" "Fanox"
Fiske Bros Refining Co 129 Lockwood St Newark 5 N J
Gulf Oil Corp P O Box 2140 Houston 1 Tex "Gulfcut"
Hanchett Mfg Co 906 N State St Big Rapids Mich
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Antisep" "Hocut" "Cut Max"
Kerns Co L R 2657 E 95th St Chicago 17 Ill
Lord Chemical Co 2068 S Queen St York Pa "Lorco"
Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich "Mirocool"
Middle States Oil Co 1103 W 11th St Cleveland 13 Ohio "Econo" "Perfection" "Vi-Tool-Ized"
National Refining Co Standard Bldg Cleveland 1 Ohio "Enarco"
**OAKITE PRODUCTS INC 19 Rector St N Y N Y**
Oster Mfg Co 1340 E 289th St Wickliffe Ohio "Bestoil"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Kem-Cut"
Phillips Petroleum Co Bartlesville Okla "Philkut"
**SHEAR SPEED CHEMICAL PRODUCTS Div of Michigan Tool Co 7125 E Ten Mile Rd Madison Heights Mich**
Shell Oil Co 50 W 50th St New York 20 N Y "Garia" "Fenella" "Dromus"
Sinclair Refining Co 600 Fifth Ave New York 20 N Y "Claire" "Litholine" "Ordnance" "Tooltex" "Trukut" "Wilkut"
Socony Mobil Oil Co 150 E 42nd St N Y 17 N Y "Mobil" (Sole distributors Mobil Oil Co 150 E 42nd St N Y 17 N Y)
**STANDARD OIL CO (Indiana) 910 S Michigan Ave Chicago 80 Ill "Acme" "Argon" "Premier" "Stanicool HD" "Stanicut" "Superla"**
**SUN OIL CO 1608 Walnut St Philadelphia 3 Pa "Sunicut" "Sunoco"**
**TEXACO INC 135 E 42nd St New York 17 N Y "Texaco Cleartex"**
Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "K-11" "3-B" "No Sep" "Aqua Sol" "Wayne Right" "Zeta-Sol" & "Magicut"
White & Bagley Co 100 Foster St Worcester Mass "W & B"

**COMPOUNDS, CUTTING FLUID ADDITIVE —See Additives, Cutting Fluid**

## COMPOUNDS, Descaling

Dow Chemical Co Midland Mich "Versene" "Versenol" "Versenex"

## COMPOUNDS, Degassing

Foundry Services Inc P O Box 8728 Cleveland 35 Ohio

## COMPOUNDS, Drawing

Almasol Corp 316 N Sylvania St Ft Worth 11 Tex
Amchem Products Inc Brookside Ave & Reading R R Ambler Pa "Grandodraw"
Bruce Products Corp 500 N West St Howell Mich
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich "Cycleweld"
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich**
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St N Y 19 N Y "Draw-Ex"
Fiske Bros Refining Co 129 Lockwood St Newark 5 N J
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Houghto Draw"
Johnson & Son Inc S C 1525 Howe St Racine Wis (Wax)
Kerns Co L R 2657 E 95th St Chicago 17 Ill "Dry-Film"
Middle States Oil Co 1103 W 11th St Cleveland 13 Ohio "Presto"
**OAKITE PRODUCTS INC 19 Rector St N Y 6 N Y "Oakite Draw Clean"**
**PARKER RUST PROOF CO 2177 E Milwaukee Ave Detroit 11 Mich "Bonderite" "Bonderlube"**
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Drawcote" "Foslube"
Standard Oil Co (Indiana) 910 S Michigan Ave Chicago 80 Ill "Stanostamp"
Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "Non-Scratch"

**COMPOUNDS, FOUNDRY—See Compounds, Core; also Compounds, Degassing; also Flux, Foundry**

**COMPOUNDS, GASKET MAKING—See Paste, Gasket Making**

## COMPOUNDS, Glazing

Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Dum Dum"
Dolphin Paint & Varnish Co 922 Locust St Toledo 3 Ohio "Dolfinite"

## COMPOUNDS, Grinding

Anderson Oil & Chemical Co Quarry Lane Portland Conn "K-7"
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich "Cycleweld"
Clover Mfg Co 327 Main St Norwalk Conn
Fiske Bros Refining Co 129 Lockwood St Newark 5 N J
Kerns Co L R 2657 E 95th St Chicago 17 Ill
King Graphite Products Inc 21949 S Telegraph Rd Trenton Mich
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich "Kool-A-Brade"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Blue Ice" "Kem-Grind"
Standard Oil Co (Indiana) 910 S Michigan Ave Chicago 80 Ill "Stanicool" "Standard Superla"
**TEXACO INC 135 E 42nd St N Y 17 N Y "Texaco Cooltex"**
Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "Aqua-Sol" "Kemicool"

## COMPOUNDS, Heat Treating

Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohio "Beacon Brand" & "Kelco"
Amchem Products Inc Brookside Ave & Reading R R Ambler Pa "Ridoxine"
American Cyanamid Co Industrial Chemicals Div Process Chemicals Dept 30 Rockefeller Plaza New York 20 N Y "Aeroheat"
Buchanan Chemical Co C G 3112 Portmouth Ave Cincinnati 8 Ohio
Holden Co A F 14341 Schaefer Highway Detroit 27 Mich
Kolene Corp 12890 Westwood Ave Detroit 23 Mich (Salt bath)
Mitchell-Bradford Chemical Co Wampus Lane Milford Conn "Quick Carb" "Quick Temper"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Park-Kase" "Woodside's"
Shell Oil Co 50 W 50th St New York 20 N Y "Aspa" "Voluta"

## COMPOUNDS, Lapping

Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill
Carborundum Co Buffalo Ave Niagara Falls N Y
Clover Mfg Co 327 Main St Norwalk Conn
Engis Equipment Co 431 S Dearborn St Chicago 5 Ill "Hyprez Diamond"
Lea Mfg Co 16 Cherry Ave Waterbury 20 Conn
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"
Wheel Trueing Tool Co 3200 W Davison Ave Detroit 38 Mich "Trulap"
Zip Abrasive Co 1360 W Ninth St Cleveland 13 Ohio

## COMPOUNDS, Masking

**(To prevent lacquer overspray)**

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich
Adhere Inc 1220 Maple Ave Los Angeles 15 Calif "Spraymask"
Dennis Chemical Co 2701 Papin St St Louis 3 Mo "Perma-Skin"
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich "LPM"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Protexit"
Permo Products Co 1629 Platte St Denver 2 Colo "Permo Mask Eze"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Plask"
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio
Steelcote Mfg Co 3418 Gratiot Ave St Louis 3 Mo
Swavely Chemical & Varnish Works 831 Page St Flint 5 Mich "Smooth Glaze"
Turco Products Inc 24600 S Main St North Wilmington Calif

## COMPOUNDS, Metal Testing

**(To visually locate cracks, flaws or porosity in metal)**

Kelite Corp 1250 N Main St Los Angeles 12 Calif
Magnaflux Corp 7328 W Lawrence Ave Chicago 31 Ill "Spotcheck" "Zyglo" "Zyglo-Pentrex" (Dye)
Turco Products Inc 24600 S Main St North Wilmington Calif

**COMPOUNDS, MOLDING—See Plastics—Materials**

## COMPOUNDS, Paint Bonding

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Iridite"**
**AMCHEM PRODUCTS INC Brookside Ave & Reading RR Ambler Pa "Alodine" "Duridine" "Granodine" "Lithoform"**
Barr & Co W M 2336 S Lauderdale St Memphis 6 Tenn "Metal Treat" (Sole distributors Klean Strip Co Box 3565 Memphis 6 Tenn)
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich**
Hughson Chemical Co Div Lord Mfg Co Greengarden at 12th St Erie Pa "Chemlok"
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa
Kelite Corp 1250 N Main St Los Angeles 12 Calif
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Klem-Kote"
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich
**OAKITE PRODUCTS INC 19 Rector St N Y N Y "Oakite Chromi Coat" "Oakite CrysCoat"**
**PARKER RUST PROOF CO 2177 E Milwaukee Ave Detroit 11 Mich "Bonderite" "Parcolite"**
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Fosbond"

## COMPOUNDS, Phosphate Coating (For Paintbonding, Rustproofing and Extrusion)

**AMCHEM PRODUCTS INC Brookside Ave & Reading RR Ambler Pa "Amchem Granodine"**
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Detrex" "Paintbond" "Extrudicate"**
DuBois Chemicals Inc Seventh & Broadway Cincinnati 2 Ohio "Dura Kote"
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa
**KELITE CORP 1250 N Main St Los Angeles 12 Calif "Kelite Keykote"**
Neilson Chemical Co 2300 Gainsboro St Ferndale Detroit 20 Mich "Lyfainte" "Prep-N-Cote"
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich "Interlox"
**OAKITE PRODUCTS INC 19 Rector St N Y 6 N Y "Oakite CrysCoat"**
**PARKER RUST PROOF CO 2177 E Milwaukee Ave Detroit 11 Mich "Bonderite"**
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Fosbond"

**COMPOUNDS, PLATING — See Chemicals, Electroplating**

**COMPOUNDS, POLISHING—See Compounds, Buffing and Polishing (Metal)**

## COMPOUNDS, Rinsing

Parker Rust Proof Co 2177 E Milwaukee Ave Detroit 11 Mich "Parcolene"

## COMPOUNDS, Rust Preventing and Removing

Aldridge Industrial Oils Inc 3401 W 140th St Cleveland 11 Ohio "Klecote"
**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Iridite" "Irilac"**
Alox Corp Buffalo Ave & Iroquois St Niagara Falls N Y (Preventing)
Amalie Div L Sonneborn Sons Inc Franklin Pa
**AMCHEM PRODUCTS INC Brookside Ave & Reading RR Ambler Pa "Deoxidine" "Deoxylyte" "Peroline" "Permadine" "Thermoil-Granodine" (Preventing)**
Anderson Oil & Chemical Co Quarry Lane Portland Conn "Winsor"
Bardahl Mfg Corp 1400 W 52nd St Seattle 7 Wash
Barr & Co W M 2336 S Lauderdale St Memphis 6 Tenn "Metal Treat" (Sole distributors Klean Strip Co Box 3565 Memphis 6 Tenn)
Bishman Mfg Co Route 2 Osseo Minn "E Z Off"
Bruce Products Corp 500 N West St Howell Mich "Bruko Non-Rust" (Preventing)
Buchanan Chemical Co C G 3112 Portsmouth Ave Cincinnati 8 Ohio "Bu-Co"


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Oakite

**how any one of these 7 CrysCoat processes can successfully solve any prepaint problem**

All 7 Oakite CrysCoat processes lock paint on steel... lock corrosion out, with a tight, dense integral coating. One of them is bound to be just right for your particular installation... just right for your particular production plans. Each is designed to help you get paint finishes of the highest quality at lowest "per-unit" production cost.

- **Oakite CrysCoat 47:** heavy, fast-coating iron phosphate for spray washer.
- **Oakite CrysCoat 187:** iron phosphate with superior cleaning ability. Used exclusively in tank application.
- **Oakite CrysCoat 89:** economical iron phosphate for spray washer.
- **Oakite CrysCoat HG:** heavy duty zinc phosphate for tank application.
- **Oakite CrysCoat SW:** single package zinc phosphate for spray or tank.
- **Oakite CrysCoat MP:** heat-saving zinc phosphate. Used in tank or spray for a wide variety of metals.
- **Oakite CrysCoat FG:** smooth, dense zinc phosphate for tank or spray.

*AND*

- **Oakite ChromiCoat:** conversion coating for Aluminum.

Ask the Oakite man to discuss your needs in pre-paint metal treatments. Or, send for literature. Oakite Products, Inc., 228A Rector Street, New York 6, N. Y.

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over 50 years' leadership in industrial cleaning
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## COMPOUNDS, Rust Preventing and Removing—continued

Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson Ave Trenton Mich "Cycleweld" (Preventing)
Cities Service Oil Co (Pa) 60 Wall Tower New York 5 N Y "Anti-Corrode"
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill "D C"
Daubert Chemical Co 4700 S Central Ave Chicago 38 Ill (Preventing)
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL" (Preventing)
Dearborn Chemical Co Merchandise Mart Plaza Chicago 54 Ill "No-Ox-Id Safegard"
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich (Rustproofing)**
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich
Diversey Corp 212 W Monroe St Chicago Ill
Drew & Co E F Automotive Chemicals Div 15 E 26th St N Y 10 N Y
Ensign Products Co 3528 E 76th St Cleveland 5 Ohio (Preventing)
Enthone Inc 442 Elm St New Haven 11 Conn (Preventing)
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y "Rust Ban"
Fine Organics Inc 211 E 19th St N Y 3 N Y "FO"
Glisten Co PO Box 281 Hillsdale Mich
Grapho Products Inc PO Box 8604 Lawrence Ind "Pen-A-Trate"
Gulf Oil Corp PO Box 2140 Houston 1 Tex "Gulf No-Rust" "Gulf Oilcoat"
Hollingshead Corp R M 840 Cooper St Camden N J "Klear Flo-Flush" "Loosen-All" "Whiz" "CR-430" "Universal"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Cosmoline" "Rust Veto" (Preventing)
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Sol-Klean" (Removing)
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa
K & W Products Inc 8319 Allport Ave Whittier Calif
Kelite Corp 1250 N Main St Los Angeles 12 Calif
Kerns Co L R 2657 E 95th St Chicago 17 Ill
Klem Chemicals Inc 14401 Lanson St Dearborn Mich
Krylon Inc Ford & Washington Sts Norristown Pa "Rust Release"
L & R Mfg Co 577 Elm St Kearny N J (Removing)
Lee Polish Mfg Co 1399 Utica Ave Brooklyn 3 N Y
Lenk Mfg Co Franklin Ky "No-Rust" (Preventing)
Lion Oil Co Lion Oil Bldg El Dorado Ark "Nokorode" (Preventing)
Liquid Glaze Inc 704 Sheridan St Lansing 6 Mich
Lord Chemical Co 2068 S Queen St York Pa "Lorco"
Lubaid Co 155 E Kilbourn St Milwaukee 1 Wis "Rench Aid" (For loosening rusty nuts bolts cylinder heads etc)
Mitchell-Bradford Chemical Co Wampus Lane Milford Conn "Magiclene" "Silco" "Witch-Dip" "Witch-Oil"
Neilson Chemical Co 2300 Gainsboro St Ferndale Detroit 20 Mich "Metalprep"
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Octoil" & "Rustclean"
Panef Mfg Co 116 E Walnut St Milwaukee 1 Wis "Smash"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Kem-Grind"
**PARKER RUST PROOF CO 2177 E Milwaukee Ave Detroit 11 Mich "Parco" "Parcolae" "Parco Compound"**
Penetone Co 74 Hudson Ave Tenafly N J "Antiox" (Preventing)
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa "Petrotect"
Permatex Co 300 Broadway Huntington Station N Y
Philadelphia Quartz Co 1146 Public Ledger Bldg Sixth & Chestnut Sts Philadelphia 6 Pa "Rusticon" (Preventing)
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Liquid Wrench" (For removing frozen joints nuts cylinder heads tail pipes and mufflers)
Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio "Penetrol"
Rust Oleum Corp 2425 Oakton St Evanston Ill (Preventing)
Service Industries 2103 E Somerset St Philadelphia 34 Pa "Ferox"
Service Supply Co 1115 Seventh St Denver 4 Colo "Wrencho"
Shell Oil Co 50 W 50th St N Y 20 N Y "Ensis"
Siloo Inc 9 E 45th St N Y 17 N Y
Speco Inc 7308 Associate Ave Cleveland 9 Ohio "Rustrem"
Spray Products Corp PO Box 1988 Camden 1 N J "Spray Nuts-Off"
Standard Oil Co (Indiana) 910 S Michigan Ave Chicago 80 Ill "Stanorust"
Stanley Co John T 642 W 30th St N Y 1 N Y "Mobo"
Steelcote Mfg Co 8418 Gratiot Ave St Louis 3 Mo
Supersite Corp 300 Seymour Ave Derby Conn "Du-Ol" (Removing)
Techline Div of Wheelabrator Corp 1466 Ave V Vicksburg Mich "Anarust"
Texaco Inc 135 E 42nd St New York 17 N Y
Thomas Co 1645 Hennepin Ave Minneapolis 13 Minn "Powerfilm"
Tumbler Laboratories Inc J A 423 S Hanover St Baltimore 1 Md
Turco Products Inc 24600 S Main St North Wilmington Calif
Valvoline Oil Co Div of Ashland Oil & Refining Co 3rd Ave & 6th St Freedom Pa "Tectyl" (Preventing)
Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis "Super-Kwick"
Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "Protex"
Wilbur & Williams Co 650 Pleasant St Norwood Mass "Rust-Shield" "Totrust" "W&W"
Witco Chemical Co 75 E Wacker Drive Chicago 1 Ill (Preventing)
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis "Tri-Flux" (Removing)
Woodhill Chemical Sales Corp 1390 E 34th St Cleveland 14 Ohio "Duro-Plastic"
Wyandotte Chemicals Corp J B Ford Div Wyandotte Mich "Ferlon" (Removing)
Wynn Oil Co 1151 W 5th St Azusa Calif
Young Radiator Co 709 S Marquette St Racine Wis "3-1-2" (Rust inhibitor for radiator cooling systems)

## COMPOUNDS, Skin Protection

**(To protect skin from paints, lacquers, oils, greases, acids, etc.)**

American Optical Co Safety Products Div Mechanic St Southbridge Mass "Safeticote"
Ayerst Laboratories 22 E 40th St N Y 16 N Y "Kerodex"
Boyer-Campbell Div White Sewing Machine Co 6540 St Antoine St Detroit 2 Mich "Skin-Cote"
Dennis Chemical Co 2701 Papin St St Louis 3 Mo "Den-Nex"
du Pont de Nemours & Co E I Fabrics & Finishes Dept Finishes Div Wilmington 98 Del "Pro-Tek"
Glisten Co PO Box 281 Hillsdale Mich
Magnus Chemical Co 185 South Ave Garwood N J "Magnus Skin-Gard"
Milburn Co 3246 E Woodbridge St Detroit Mich "Ply"
Tumbler Laboratories Inc J A 423 S Hanover St Baltimore 1 Md.

## COMPOUNDS, Spray Booth

Bruce Products Corp 500 N West St Howell Mich (Coating)
Dearborn Chemical Co Merchandise Mart Plaza Chicago 54 Ill
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Vin-Cote" (Coating; "Detrex" conditioning)**
Du Bois Chemicals Inc Seventh & Broadway Cincinnati 2 Ohio "Filmite" "Klarifiant" "Strypp" "Peel Filmite" "Perj" (Cleaning)
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Sepcote"
Kelite Corp 1250 N Main St Los Angeles 12 Calif (Coating)
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Booth Kote" (Coating)
Magnus Chemical Co 185 South Ave Garwood N J (Coating)
Northwest Chemical Co 9310 Roselawn Ave Detroit 4 Mich "Spra-Lube"
Oakite Products Inc 19 Rector St N Y N Y (Cleaning etc)
Peck's Products Co 610 E Clarence Ave St Louis 15 Mo "Pepco"
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa (Conditioning)
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Plask" (Coating)
Turco Products Inc 24600 S Main St Wilmington Calif
Wyandotte Chemicals Corp J B Ford Div Wyandotte Mich "Flote"

**COMPOUNDS, TERMINAL—See Paints, Storage Battery Terminal**

## COMPOUNDS, Tinning

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux"
All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "Kartin" "Kromover"
Dunton Co M W 350 Kinsley Ave Providence R I
du Pont de Nemours & Co E I Electrochemicals Dept Chlorine Products Div Wilmington 98 Del
Farreloy Co 1243 N 26th St Philadelphia 26 Pa "Farco" "Tinezy"
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa "Tin-Ezy."
Marson Corp 115 Mill St Revere Mass "Tin-Kote"
Modern Engrg Co 3411 Pine Blvd St Louis 3 Mo "Meco"
National Lead Co 111 Broadway New York 6 N Y "Dutch Boy"
Swiss Laboratory 1533 Hamilton Ave Cleveland 14 O "Tin-Spred"

## COMPOUNDS, Wear Resisting (Metal)

**PARKER RUST PROOF CO 2177 E Milwaukee Ave Detroit 11 Mich "Parco Lubrite"**

## COMPOUNDS, Welding

Dolphin Paint & Varnish Co 922 Locust St Toledo 3 Ohio "Dolfinite"
Ensign Products Co 3528 E 76 St Cleveland 15 Ohio
Harrison Paint & Varnish Co Midland Industrial Div 1329 Harrison Ave N W Canton 1 Ohio "No-Spat" (To prevent bonding of spatter to parts)
Krembs & Co 669 W Ohio St Chicago 10 Ill "Pyrolute" (Anti-spatter)
Linde Co 270 Park Ave N Y 17 N Y (Anti-spatter)
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn "Marquette Spatter-Shield"
Parr Paint & Color Co 18313 Syracuse Ave Cleveland 10 Ohio
Wayne Chemical Products Co Copeland Ave & MCRR Detroit Mich ("Flash-Ex" to prevent bonding of flash to dies; "Spatter-Ex" to prevent bonding of spatter to parts)
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis "Anti-Spatter" (To prevent bonding of spatter to parts)

## COMPOUNDS, Windshield Sealing

Dolphi Paint & Varnish Co 922 Locust St Toledo 3 Ohio "Dolfinite"
du Pont de Nemours & Co E I Finishes Div Specialties Sales Wilmington 98 Del "No 7"
Krylon Inc Ford & Washington Sts Norristown Pa "Sealzit"
Magic Iron Cement Co 14215 Caine Ave Cleveland 28 Ohio
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn
Presstite Div American - Marietta Co 3738 Chouteau St St Louis 10 Mo "Vibradamp"
Permatex Co 300 Broadway Huntington Station N Y
Radiator Specialty Co 1400 W Ind Blvd Charlotte 1 N C "Solder Seal"
Woodhill Chemical Sales Corp 1390 E 34th St Cleveland 14 Ohio "Duro-Plastic"

**COMPRESSED AIR SEPARATORS — See Separators, Compressed Air**

**COMPRESSION TESTERS, CYLINDER—See Gages, Cylinder Compression**

## COMPRESSORS, Air (Auto, Truck and Bus)

**(For operating air brakes, horns, etc.)**

**BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO 901 Cleveland Rd Elyria Ohio (For air brakes)**
Buell Mfg Co P O Box 206 Lyons Ill
Grover Products Co 1221 S Hope St Los Angeles 15 Calif (Electric)
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich (For truck air brakes)**
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo (For air brakes)**

## COMPRESSORS, Air (Diesel Engine Driven)

American Air Compressor Corp Dell Ave & 48th St North Bergen N J
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "Power Vane"**
Clark Bros Co Lincoln Ave Olean N Y
Davey Compressor Co 600 Franklin Ave Kent Ohio "Super-Chief"
Ingersoll-Rand Co 11 Broadway N Y 4 N Y
Jaeger Machine Co 550 W Spring St Columbus 16 Ohio
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Unitar"
Le Roi Div Westinghouse Air Brake Co Milwaukee 1 Wis "Le Roi Airmaster"
Schramm, Inc., Virginia & Garfield Aves West Chester Pa
Worthington Corp Harrison N J

## COMPRESSORS, Air (Electric Motor Driven)

Allis-Chalmers Mfg Co Milwaukee 1 Wis
American Air Compressor Corp Dell Ave & 48th St North Bergen N J
Bell & Gossett Co 8200 Austin Ave Morton Grove Ill
**BINKS MFG CO 3120 Carroll Ave Chicago 12 Ill (For operating spray equipment)**
Black Mfg Co 403 Penn St Baltimore 30 Md
Brown Corp W R 2701 N Normandy Ave Chicago 35 Ill
Brunner Div Dunham-Bush Inc 179 South St West Hartford 10 Conn
Buell Mfg Co PO Box 206 Lyons Ill
Campbell-Hausfeld Co 211 Railroad Ave Harrison Ohio "Pressure Maid" "Pressure Princess" "Pressure Queen" "Tankmobile"
Champion Pneumatic Machinery Co 825 N Pleasant St Princeton Ill
**CHICAGO PNEUMATIC TOOL CO., 6 E 44th St New York N Y "CP"**
Clark Bros Co Lincoln Ave Olean N Y
Cochin Mfg Co J D 205 E Grand Ave South San Francisco Cal "Easy"
Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 33 Mo
Davey Compressor Co 600 Franklin Ave Kent Ohio "Hydro-Van"
Dayton Air Compressor Co 427 Valley St Dayton 4 Ohio
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Essick Mfg Co 1950 Santa Fe Ave Los Angeles 21 Calif
Gardner-Denver Co S Front St Quincy Ill
Gilbert & Barker Mfg Co Cold Spring Ave West Springfield Mass
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Jaeger Machine Co 550 W Spring St Columbus 16 Ohio
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
Kellogg-American Div Scaife Co Oakmont Pa
Keystone Compressor Co 8407 Hegerman St Holmesburg Philadelphia 36 Pa
Le Roi Div Westinghouse Air Brake Co Milwaukee 1 Wis
Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
Paasche Airbrush Co 1909 Diversey Parkway Chicago 14 Ill
Pioneer Air Compressor Co 120 Chambers St New York N Y
Quincy Compressor Co 217 Maine St Quincy Ill
Schramm Inc Virginia & Garfield Aves West Chester Pa
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**
Scott Air Compressor Co 4682 Mulberry St Philadelphia 24 Pa
Sharpe Mfg Co 1224 Wall St Los Angeles 15 Cal
Southwest Pump Co First and Center Sts Bonham Tex
Supreme Equipment Corp 12415 Euclid Ave Cleveland 6 Ohio
Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Sprayit"
United States Air Compressor Co 5300 Harvard Ave Cleveland 5 Ohio
Weaver Mfg Div Dura Corp 2177 S Ninth St Springfield Ill
Wilson Inc K R Arcade N Y "K R W"
Worthington Corp Harrison N J

## COMPRESSORS, Air (Gasoline Engine Driven)

American Air Compressor Corp Dell Ave & 48th St North Bergen N J
Brunner Div Dunham-Bush Inc 179 South St West Hartford 10 Conn
Buell Mfg Co PO Box 206 Lyons Ill
Campbell-Hausfeld Co 211 Railroad Ave Harrison Ohio "Pressure Princess" "Pressure Queen" "Tankmobile"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "Power Vane"**
Clark Bros Lincoln Ave Olean N Y
Cochin Mfg Co J D 205 E Grand Ave South San Francisco Cal "Easy"
Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 33 Mo
Davey Compressor Co 600 Franklin Ave Kent Ohio "Air Chief" "Super Chief"
Dayton Air Compressor Co 427 Valley St Dayton 4 Ohio
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Essick Mfg Co 1950 Santa Fe Ave Los Angeles 21 Calif
Gardner-Denver Co S Front St Quincy Ill
Hesse Carriage Co 6700 St John St Kansas City 25 Mo "Hesse Hornet"
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Jaeger Machine Co 550 W Spring St Columbus 5 Ohio
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
Kellogg-American Div Scaife Co Oakmont Pa
Keystone Compressor Co 8407 Hegerman St Holmesburg Philadelphia 36 Pa
Le Roi Div Westinghouse Air Brake Co Milwaukee 1 Wis
Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
Pioneer Air Compressor Co 120 Chambers St N Y 7 N Y
Power Brake Parts Mfg Co 8060 Wheeler Ave Detroit 10 Mich "Elec-Air"
Quincy Compressor Co 217 Maine St Quincy Ill
Schramm Inc Virginia & Garfield Aves West Chester Pa
Scott Air Compressor Co 4682 Mulberry St Philadelphia 24 Pa
Sharpe Mfg Co 1224 Wall St Los Angeles 15 Cal
Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Sprayit"
United States Air Compressor Co 5300 Harvard Ave., Cleveland 5 Ohio
Worthington Corp Harrison N J "Blue Brute"

## COMPRESSORS, Refrigeration (Auto)

Copeland Refrigeration Corp Short Clinton St Sidney Ohio "Copelametic" (Air conditioning)
Tecumseh Products Co Tecumseh Mich (Air conditioning)
York Div of Borg-Warner Corp York Pa (Air conditioning)

**CONDENSER TESTERS — See Instruments, Electrical Circuit Testing**

## CONDENSERS, Ignition

American Motor Products Co Fond du Lac Wis "Ampco"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electric Autolite Co Toledo Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Guaranteed Parts Co Seneca Falls N Y "GP"
**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
New York Coil Co 42 Second Ave Phoenixville Pa "Nyco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Sprague Electric Co 344 Marshall St North Adams Mass
Springfield Electrical Specialties Inc 120 Wooster St New York 12 N Y "Superseal"
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" "Standard"
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Tungsten Contact Mfg Co 7311 Cottage Ave North Bergen N J
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wico Ignition Div Globe-Union Inc West Springfield Mass

**CONDENSERS, MOTOR RADIO — See Radio Accessories (Auto)**

## CONDUIT, Flexible Car Wiring

**(Metal and fabric conduit; see also Tubing, Flexible Metallic)**

Anaconda Metal Hose Div American Brass Co 698 S Main Street Waterbury 20 Conn "Sealtite"
Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich
Saylor Electric Products Corp 277 Pierce St Birmingham Mich "Saylorduct"
Saylor & Son Frank D 13095 Greeley Ave Detroit 3 Mich "Saylortube"
Universal Metal Hose Co 2133 S Kedzie Ave Chicago 23 Ill "Steelflex"
Wiremold Co Railroad Ave Hartford 10 Conn "Wireduct"
Zippertubing Co 752 S San Pedro St Los Angeles 14 Calif (Plastic zipper cable jacket)

**CONES, BALL—See Cups and Cones, Ball**

**CONNECTING ROD ALIGNING TOOLS — See Jigs, Connecting Rod Aligning; also Machines, Boring (Main Bearing and Connecting Rod)**

**CONNECTING ROD BOLTS—See Bolts, Connecting Rod**

**CONNECTING RODS—See Rods, Connecting**

## CONNECTIONS, Hose

**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Diamond-U Products 8459 Dearborn Ave South Gate Calif
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Cal "Tru-Flate" (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Gates Rubber Co 999 S Broadway Denver 17 Colo
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Hunt Valve Co 1913 E Pershing St Salem Orio "Quick as Wink"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio "Hoze-lok" "Push-lok"
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Sharpe Mfg Co 1224 Wall St Los Angeles 15 Cal
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn
**WEATHERHEAD CO Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind**

**CONNECTIONS, RADIATOR—See Hose, Radiator**

## CONNECTIONS, Steering

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio (Tie rods and drag links)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y (Tie rod drag links and intermediate rods)
Buckeye Forging Co 9217 Miles Ave Cleveland 5 Ohio (Rod ends)
Columbus Auto Parts Co Hudson St & P R R Columbus 16 Ohio
Columbus Bolt & Forging Co 291 Marconi Blvd Columbus 15 Ohio
Elgin Machine Works Inc 412 N State St Elgin Ill
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Tie rod ends)
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power" (Tie rod ends and drag links)
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis Mo (Drag links)
Master Parts Div Airtex Products Inc Fairfield Ill (Tie rod ends and drag links)
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Neapco Products Inc South & Cross Sts Pottstown Pa
O & S Bearing & Mfg Co 777 W 8 Mile Rd Whitmore Lake Mich (Tie rods drag links and control linkages)
Parts Mfg Co 211 W 61st St New York 23 N Y "Parco" (Tie rods and drag links)
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco" (Tie rod ends)
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich (Linkages)
Stephens-Adamson Mfg Co Ridgeway Ave Aurora Ill "Spherco"
Superior Machine Tool Co 329 E Firmin St Kokomo Ind (Sectors)
Thompson Products Michigan Div Thompson-Ramo Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Drag links and tie rods)
Toledo Steel Products Div of Thompson Ramo Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

## CONNECTIONS, Steering—continued

Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Tie rod ends and drag links)
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich (Tie rods)

**CONNECTIONS, THROTTLE — See Joints, Ball**

**CONNECTIONS, TUBING—See Fittings, Tube**

**CONNECTORS, BELT—See Fasteners, Belt**

## CONNECTORS, Electrical Circuit (Trailer)

**(For electrical circuit from truck to trailer)**

Autac Inc P O Box 1071 New Haven Conn "Autac Koiled Kords"
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill "Berg De Luxe" "Berg Royal" "Berg-Shur-Lock" "Berg Universal"
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass "Hencol"
Exide Sales Automotive Div Elcetric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"
Griffin Lamp Co Shelby Miss
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
K-D Lamp Co 1910 Elm St Cincinnati 10 Ohio
Kliegl Bros Universal Electric Stage Lighting Co 321 W 50th St New York N Y
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Pyle-National Co 1334 N Kostner Ave Chicago 51 Ill "Triploc" "Pyle National" "Pyle-Star-Lin" "Quel Arc"
Royal Electric Corp 95 Grand Ave Pawtucket R I
S & M Lamp Co 2369 E 57th St Los Angeles 54 Calif
Scintilla Div of Bendix Corp Sidney N Y "Bendix"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Willard Sales Automotive Div Electric Storage Battery Co PO Box 6266 Cleveland 1 Ohio "ESB"

## CONNECTORS, Lamp (Electric)

**AMP INC Eisenhower Blvd Harrisburg Pa "Fastin-Faston" "Ampeez"**

Carr Fastener Corp 31 Ames St Cambridge 42 Mass
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Watts Electric & Mfg Co 222 E Maple Rd Birmingham Mich

**CONNECTORS, STORAGE BATTERY — See Parts, Storage Battery**

**CONNECTORS, TRAILER — See Couplers, Trailer**

## CONNECTORS, Wiring Harness

**AMP INC Eisenhower Blvd Harrisburg Pa "Fastin-Faston" "Amp-lok" "Ampeez"**

**CONTACT POINTS—See Points, Contact (Ignition)**

## CONTACTS, Electrical

**MALLORY CO P R & CO 76 S Gray St Indianapolis 6 Ind**

**CONTOUR FORMING MACHINES—See Machines, Contour Forming**

**CONTOUR GRINDING MACHINES—See Machines, Grinding (Contour)**

**CONTOURING LATHES — See Lathes, Contouring**

## CONTRACT WORK

**(See also Machine Work, To Order; also Screw Machine Products To Order)**

Alten Fdry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Connecticut Broach & Machine Co 21 Pequot Ave New London Conn (Broaching)
**CONTINENTAL AVIATION & ENGRG CORP 12700 Kercheval Ave Detroit 15 Mich**
Croname Inc 6201 Howard St Chicago 48 Ill (Decorative trim and sub-assembly)
Federal Machine & Welder Co 1745 Cleveland Ave Warren Ohio
Indus Corp 1817 Madison Ave Indianapolis Ind
Kent-Owens Machine Co 958 Wall St Toledo 10 Ohio
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio (Sheet metal)
Ottawa Steel Products Inc 745 Woodlawn Ave Grand Haven Mich
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Pipe Machinery Co 29100 Lakeland Blvd Wickliffe Ohio
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis (Sheet metal)
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio

**CONTROL CABLE — See Cable, Brake Control**

## CONTROLLERS, Electric Motor

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Clark Controller Co 1146 E 152nd St Cleveland 10 Ohio "3C"
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis
Electric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M"
Furness Electric Co 1000 McKee St Batavia Ill
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Aves Philadelphia 44 Pa
Ward Leonard Electric Co 37 South St Mt Vernon N Y
Weltronic Corp 19500 W 8 Mile Rd Southfield Mich
Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y

## CONTROL SYSTEMS (Electrical)

**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic" (Magnetic amplifier)**

Westinghouse Electric Corp 3 Gateway Center Pittsburgh 30 Pa

**CONTROL SYSTEMS, Machine Tool—See Systems, Machine Tool Control**

## CONTROLS, Brake (Air)

**ROSS GEAR & TOOL CO 800 Heath St Lafayette Ind**

## CONTROLS, Brake (Hand)

Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Neate"

## CONTROLS, Brake (Trailer)

Bendix Westinghouse Automotive Air Brake Co 901 Cleveland Ave Elyria Ohio (Air)
Minnesota Automotive Inc 1328 Hennepin Ave Minneapolis 3 Minn "Mico"
Power Brake Equipment Co 1632 S E 11th Ave Portland 14 Ore "Williams"
Power Brake Parts Mfg Co. 3435 S Racine Ave Chicago 8 Ill
Velvac Inc 3534 W Pierce St Milwaukee 15
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo (Air)**
Warner Electric Brake & Clutch Co Beloit Wis

## CONTROLS, Brake (Wheel Spinning)

**(Installed in brake system, prevents spining of one wheel)**

Minnesota Automotive Inc 1101 N Front St Mankato Minn "Mico No-Stuck"

**CONTROLS, CARBURETOR — See Controls, Carburetor Choke (Automatic); also Controls, Push-Pull**

## CONTROLS, Carburetor Choke (Automatic)

Bendix Products Div Bendix Corp South Bend 20 Ind "Stromberg"
Pierce Governor Co 1625 Ohio Ave Anderson Ind

## CONTROLS, Clutch (Power Operated)

Bendix Products Div Bendix Corp South Bend 20 Ind (Vacuum)
Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Ave Elyria Ohio (Air)

## CONTROLS, Directional Signal (Auto)

**ROSS GEAR & TOOL CO 800 Heath St Lafayette Ind**

## CONTROLS, Engine (Automatic)

**(See also Switches)**

Automatic Switch Co Hanover Rd Florham Park N J "Asco"
Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1 Tenn "Sylphon" (Diesel)
Murphy Mfr Inc Frank W 3131 S Sheridan St Tulsa Okla
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill
United Electric Controls Co 85 School St Watertown 72 Mass

## CONTROLS, Gear Shift (For Transmission)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo 13F Mich
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich

**CONTROLS, GENERATOR CURRENT & VOLTAGE—See Regulators, Generator and Voltage (Auto)**

## CONTROLS, Headlamp Beam (Automatic)

Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass "Hi-Way"
Guide LampDiv General Motors Corp 25th St & Arrow Ave Anderson Ind "Guide-Matic"

**CONTROLS, HEATER (THERMOSTATIC)—See Thermostats, Heater**

## CONTROLS, Oil Level

Lunkenheimer Co Beekman St. & Waverly Ave Cincinnati Ohio "Alvor"

## CONTROLS, Push-Pull

**(For changing adjustments of carburetor from seat or operating choke for starting, exhaust heater, exhaust horn, ventilator, radiator shutter, etc.)**

**AMERICAN CHAIN & CABLE CO Automotive & Aircraft Div 601 Stephenson Bldg Detroit 2 Mich "TruLay"**

Arens Controls Inc 2031 Greenleaf St Evanston Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
**DELCO-REMY Div General Motors Corp 2401 Columbus Ave Anderson Ind**
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Kupfrian Mfg Corp 351 State St Binghamton N Y
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Milwaukee Spring Co Div Illinois Coil Spring Co 3400 S Nevada St Milwaukee 7 Wis
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Richland Auto Parts Corp 145 Distl Ave Mansfield Ohio
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Shakespeare Products Co 241 E Kalamazoo Ave Kalamazoo Mich
Simmonds Precision Products Inc 105 White Plains Rd Tarrytown N Y
Stewart Corp F W 4311 N Ravenswood Ave Chicago 13 Ill "Circle Ess"
Superior Screw & Mfg Co P O Box 433 Crystal Lake Ill "Aldo" (Also manual choke conversions kits)
Teleflex Industrial Products Inc Fourth & Berks Sts Boyertown Pa
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind**
Western Control Corp 2533 S West St Wichita Kans
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## CONTROLS, Refrigeration and Air Conditioning (Auto and Truck)

**CONTROLS CO OF AMERICA Heating & Air Conditioning Div 2450 N 32nd St Milwaukee 45 Wis "A-P"**

General Controls Co 801 Allen Ave Glendale 1 Calif (Air Conditioning)
Partlow Corp 244 Campion Rd New Hartford N Y (Truck trailer)
United Electric Controls Co 85 School St Watertown 72 Mass (Truck-trailer)

## CONTROLS, Remote Power

**(For snow plows, road machinery, etc.)**

Gar Wood Industries Inc Wayne Mich "Gar Wood Snowlift" (Fan belt driven for snow plows)
Monarch Road Machinery Co 1331 Michigan St N E Grand Rapids 3 Mich "Dyna-Might" "Hy-Lo-Jeep" "Hy-Lo-Jack" (Hydraulic, belt and electrically driven)

Stewart Corp F W 4311 N Ravenswood Ave Chicago 13 Ill
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio (For off-highway equipment)

**CONTROLS, STEERING COLUMN—See Controls, Push-Pull**

## CONTROLS, Turbocharger

**GARRETT CORP AiResearch Industrial Div 9225 S Aviation Blvd Los Angeles 15 Calif "AiResearch"**

**CONTROLS, WELDING—See under Welders and Equipment**

## CONVERTERS, LP-Gas, for Internal Combustion Engines

American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif "Algas"
Beam Products Mfg Co 3040 Rossiyn St Los Angeles 65 Calif
Century Gas Equipment Marvel-Schebler Products Div Borg-Warner Corp 625 Southside Dr Decatur Ill
J & S Carburetor Co P O Box 10391 Dallas 7 Tex

## CONVERTERS, Torque (Hydraulic)

Borg & Beck Div Borg-Warner Corp 6558 S Menard Ave Chicago 38 Ill "B & B"
Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich
Funk Mfg Co 1211 W 12th St Coffeyville Kans
**LONG MFG DIV Borg-Warner Corp 12501 Dequindre St Detroit Mich**
**ROCKWELL-STANDARD CORP Transmission & Axle Div 100 Clark Ave Detroit 32 Mich "Timken-Detroit"**
**TWIN DISC CLUTCH CO 1328 Racine St Racine Wis (Truck)**
Western Gear Corp 2600 E Imperial Highway Lynwood Calif (Truck)

**CONVEYOR CHAINS—See Chains, Conveyor**

**CONVEYOR FURNACES—See Furnaces, Conveyor**

## CONVEYORS, Apron

Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich
Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Anchor Steel & Conveyor Co 6900 Kingsley Ave Dearborn Mich
Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Brady Conveyors Corp 4244 Dempster St Skokie Ill
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Gifford-Wood Co 1 Hudson Ave Hudson N Y
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyor Co 102 Tenth St Ellwood City Pa (Continuous)
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Olson Mfg Co Samuel 2418 Bloomingdale Ave Chicago 17 Ill
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Pettibone Mulliken Corp Pettibone New York Div 1212 E Dominick St Rome N Y "Haiss"
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill
Stevens Co A T 118 E 28th St New York 16 N Y
Union Chain & Mfg Co Sandusky Ohio
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich
Webster Mfg Inc Tiffin 16 Ohio

## CONVEYORS, Automotive (Floor Type)

American Monorial Co Conveyor Div Tipp City Ohio
Anchor Steel & Conveyor Co 6900 Kingsley Ave Dearborn Mich
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

## CONVEYORS, Belt

Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich
Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Arrow Products Inc S Ferry St Grand Haven Mich ("Arr-O-Mite" & "Arr-O-Booster" Portable; "Arr-O-Parts Veyor" portable cleated; "Arr-O-Veyor" "Arr-O-Veyor Jr" "Arr-O-Unit Veyor")
Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio
Brady Conveyors Corp 4244 Dempster St Skokie Ill
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Fairfield Engrg Co 324 Barnhart St Marion Ohio
Gifford-Wood Co., 1 Hudson Ave Hudson N Y
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Island Equipment Corp 1090 E 31st Hialeah Fla "Unitized" "Styl-O-Veyor" (Portable)
Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
Jensen Inc 9331 Freeland St Detroit 28 Mich
Lamson Corp 100 Lamson St Syracuse 1 N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Lippmann Engrg Wks Inc 4603 W Mitchell St Milwaukee Wis "LEW"
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Mechanical Handling Systems, Inc 4600 Nancy Ave Detroit Mich
Mentor Products Inc 39805 Mentor Ave Mentor Ohio
Olson Mfg Co Samuel 2418 Bloomingdale Ave Chicago 47 Ill
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Pettibone Mulliken Corp Pettibone New York Div 1212 E Dominick St Rome N Y "Haiss"
Prab Conveyors Inc 30121 Groesbeck Hwy Roseville Detroit Mich
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"
Sage Equipment Co 30 Essex St Buffalo 13 N Y
Standard Conveyor Co 315 Second Ave N W North St Paul 9 Minn
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill
Stevens Co A T 118 E 28th St New York 16 N Y
Union Tool Corp 800 N Detroit St Warsaw Ind
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich
Webster Mfg Inc Tiffin 16 Ohio
West Bend Equipment Co 216 S Water St West Bend Wis "Weld-Bilt"

## CONVEYORS, Chain

Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
American Monorail Co Conveyor Div Tipp City Ohio
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Gifford-Wood Co 1 Hudson Ave Hudson N Y
Hapmann Corp Conveyor Div 630 Gibson St Kalamazoo 6 Mich
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Island Equipment Corp 1090 E 31st St Hialeah Fla "Ultimate"
Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
Lamson Corp 100 Lamson St Syracuse 1 N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Pettibone Mulliken Corp Pettibone New York Div 1212 E Dominick St Rome N Y "Haiss"
Sage Equipment Co 30 Essex St Buffalo 13 N Y
Standard Conveyor Co 315 Second Ave N W North St Paul 9 Minn
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich
Webster Mfg Inc Tiffin 16 Ohio

## CONVEYORS, Chip Handling

Gifford-Wood Co 1 Hudson Ave Hudson N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "Flexmount"

## CONVEYORS, Enameling, Painting and Drying

American Monorail Co Conveyor Div Tipp City Ohio
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

## CONVEYORS, Furnace

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill

## CONVEYORS, Gravity (Roller)

Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo "Alvey-St Louis"
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Arrow Products Inc S Ferry St Grand Haven Mich "Arr-O-Roll" "Arr-O-Gravity"
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio "Quick Eez"
Lamson Corp 100 Lamson St Syracuse 1 N Y
Lippmann Engrg Wks Inc 4603 W Mitchell St Milwaukee Wis "LEW"
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Mechanical Handling Systems, Inc 4600 Nancy Ave Detroit Mich
Olson Mfg Co Samuel 2418 Bloomingdale Ave Chicago 47 Ill
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"
Sage Equipment Co 30 Essex St Buffalo 13 N Y
Standard Conveyor Co 315 Second Ave N W North St St Paul 9 Minn
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

## CONVEYORS, Overhead

**(See also Systems, Overhead Conveying)**

Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
American Monorail Co Conveyor Div Tipp City Ohio
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio "Universal" (Cable)
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Island Equipment Corp 1090 E 31 St Hialeah Fla
Jensen Specialties Inc 9331 Freeland St Detroit 28 Mich
Lamson Corp 100 Lamson St Syracuse 1 N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Louden Machinery Co 1102 West Ave Fairfield Iowa
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan-Keystone"
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

## CONVEYORS, Portable

Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Baughman Mfg Co Shipman Rd Jerseyville Ill (Belt)

## CONVEYORS, Portable—continued

Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio
Bosworth Mfg Co 34250 Mills Rd Avon Ohio (Magnetic)
Buschman Co E W Spring Grove Ave & Clifton Ave Cincinnati 32 Ohio "Trojan"
Fairfield Engrg Co 324 Barnhart St Marion Ohio
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa
Lake Shore Inc Iron Mountain Mich
Lippmann Engrg Wks Inc 4603 W Mitchell St Milwaukee Wis "LEW"
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
May-Fran Engrg Inc 1744 Clarkstone Rd Cleveland 12 Ohio "Little Hustler"
Mulkey Co Sam P O Box 270 Lee's Summit Mo (Belt and chain)
Oliver Corp A B Farquhar Div 142 N Duke St York Pa "Ace"
Olson Mfg Co Samuel 2418 Bloomingdale Ave Chicago 47 Ill
Pettibone Mulliken Corp Pettibone New York Div 1212 E Dominick St Rome N Y "Haiss"
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"
Standard Conveyor Co 315 Second Ave N W North St Paul 9 Minn
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich
Wisconsin Foundry & Machine Co 623 E Main St Madison 1 Wis

## CONVEYORS, Power and Free

American Monorail Co Conveyor Div Tipp City Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan-Keystone"
Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

## CONVEYORS, Spiral Chute

Alvey Conveyor Mfg Co 9301 Olive St Rd St Louis 24 Mo
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Olson Mfg Co Samuel 2418 Bloomingdale Ave Chicago 47 Ill
Standard Conveyor Co 315 Second Ave N W North St Paul 9 Minn

## CONVEYORS, Truck and Trailer (Floor Type)

Watson Co H S 1316 67th St Emeryville Calif "Watson-DeWitt Moto-Vator" (Electric)

## CONVEYORS, Under Floor (Tow)

American Monorial Co Conveyor Div Tipp City Ohio
Anchor Steel Conveyor Co 6900 Kingsley Ave Dearborn Mich
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "Trukveyors"
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich "MHS"

## COOLANT SUPPLY SYSTEMS

Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J "Bijur Spraymist"
De Vilbiss Co 300 Phillips Ave Toledo 1 Ohio
Drillmation Co 6500 E 11 Mile Rd Center Line Mich "Coolmation"
Edlund Machinery Co Div of Harsco Corp 37 Huntington St Cortland N Y
Norgren Co C A 3400 S Elati St Englewood Calif
Precise Products Corp 3715 Blue River Rd Racine Wis "Vapor Lub"
Sealol Corp Warwick Industrial Park Providence 5 R I
Trico Fuse Mfg Co 2948 N Fifth St Milwaukee 12 Wis

## COOLERS, Jacket Water (Oil or Gas)

American Standard Industrial Div Detroit 32 Mich (Oil)
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

## COOLERS, Oil

(For engine oil coolers—See Regulators, Oil Temperature (Engine))

American Standard Industrial Div Detroit 32 Mich
**G & O MFG CO 138 Winchester Ave New Haven 8 Conn**
General Radiator Co P O Box 658 Mt Vernon Ill
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y (Transmission)
**LONG MFG DIV Borg-Warner Corp 12501 Dequindre St Detroit 12 Mich**
Modine Mfg Co 1500 De Koven Ave Racine Wis (Transmission)
Perfex Corp 500 W Oklahoma Ave Milwaukee 7 Wis
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

## COOLERS, Torque Converter

American Standard Industrial Div Detroit 32 Mich
Young Radiator Co 709 S Marquette St Racine Wis

**COPPER ALLOYS—See Alloys, Copper**
**COPPER, ROD AND SHEET—See Brass and Copper, Sheet, Rod and Ingot**
**COPPER TUBE—See Tubing, Brass and Copper**
**COPPERS, SOLDERING—See Irons, Soldering**
**COPYING LATHES—See Lathes, Copying**

## CORD, Service (Portable Tool)

General Cable Corp 730 Third Ave N Y 17 N Y
General Electric Co Accessory Equip Dept Component Products Div 1285 Boston Ave Bridgeport 2 Conn
Packard Electric Div General Motors Dana St Warren Ohio "Packard Flex-o-Cord"
Simplex Wire & Cable Co 79 Sidney St Cambridge 39 Mass "Tirex"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill
White Inc J M 11th & Cambria Sts Philadelphia 33 Pa

## CORD, Tire

(For use in manufacture of tires)

American Enka Corp 350 Fifth Ave N Y 1 N Y "Tyrex" "Suprenka"
American Viscose Corp 1617 Pennsylvania Ave Philadelphia 3 Pa "Tyrex"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio (Cotton nylon and rayon)
General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio "Nygen"
Industrial Rayon Corp 660 Union Commerce Bldg Cleveland 1 Ohio "Tryon" (Viscose)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 30 N Y

**CORE COMPOUNDS—See Compounds, Core**
**CORE HOLE PLUGS—See Plugs, Core Hole and Expansion**
**CORE MAKING MACHINES—See Machines, Core Making (Foundry)**
**CORED BARS—See Metals, Bearing**
**CORES, GENERATOR—See Parts, Generator**

## CORES, Radiator

**AUTO RADIATOR MFG CO 2901 Indiana Ave Chicago 16 Ill "Eureka"**
Beacon Auto Radiator Co 110 Brookline Ave Boston 15 Mass
Blackstone Corp 1111 Allen St Jamestown N Y
Daniel Radiator Corp 5542 Harvey Wilson Ave Houston 20 Tex "Gold Seal"
Eskimo Radiator Mfg Co 649 Ceres St Los Angeles 21 Calif
G & O Mfg Co 138 Winchester Ave New Haven Conn
General Radiator Co P O Box 658 Mt Vernon Ill
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Modine Mfg Co 1509 DeKoven Ave Racine Wis
Paragon Auto Radiator Corp 51 Rutledge St Brooklyn 11 N Y
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

## CORES, Valve (Tire)

Acme Air Appliance Co 205 Newman St Hackensack N J
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 8 Ind
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
**SCHRADER'S SON DIV of Scovill Mfg Co A 470 Vanderbilt Ave Brooklyn 38 N Y**
Syracuse Gauge Co 113 S Midler Ave Syracuse 6 N Y

## CORK, Sheet

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa
Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Chicago Cork Works Co 6001 Gross Point Rd Niles Ill
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Korkoid" (Cork and fibre)
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Blvd Norfolk 5 Va
Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J
Rhopac Inc 3425 Cleveland St Skokie Ill
Sure-Rite Products Corp 2731 N Sixth St Philadelphia 33 Pa
Sutherland Leather & Felt Co 743 Beaubien St Detroit 26 Mich

**CORK WASHERS—See Gaskets, Cork**

## CORKS, Brake and Clutch Insert

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa
Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J

**COTTER PINS—See Pins, Cotter**
**COUNTERBORES—See Tools, Cutting**

## COUNTERS, Engine Revolution (Auto)

Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Veeder-Root Inc 20 Sargeant St Hartford 2 Conn

## COUNTERS, Revolution (Machinery)

(For counting automatic output)

Durant Mfg Co 1900 N Buffum St Milwaukee 1 Wis "Productimeter" "Durant"
Engler Instrument Co 250 Culver Ave Jersey City 5 N J
Veeder-Root Inc 20 Sargeant St Hartford 2 Conn

## COUNTERSHAFTS

Brown Corp 213 Bellevue Ave Syracuse N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill

**COUNTERSINKS—See Tools, Cutting**

## COUPLERS, Trailer

Acme Mfg Co 1406 Agnes St Kansas City 27 Mo
Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill
Austin Trailer Equipment Co 1148 W Western Ave Muskegon Mich
Big Boy Products Div of Dalton Foundries Inc Lincoln & Jefferson Sts Warsaw Ind
Burch Corp 326 S Thoman St Crestline Ohio "Quick Mount"
Colson Corp Elyria Ohio
Draw-Tite Co Belleville Mich (Utility)
Elkhart Welding & Boiler Works Inc 2132 S Main St Elkhart Ind "Bolt-Fast"
Fulton Co., 1912 S 82nd Ave Milwaukee 14 Wis
Hammer Blow Tool Co 602½ Third St Wausau Wis "Bull Dog" "Back-in-Hitch"
Holland Hitch Co 430 W 18th St Holland Mich
Ideal Mfg Co 1107 S 7th St Oskaloosa Iowa
Independent Iron Works Inc 8th & Pine Sts Oakland 20 Calif "Baker Hitch-Master" "Baker Tow-King"
McCabe Power Body Co 5900 N Broadway St Louis 15 Mo
Marvel Industries Inc Sturgis Mich (House trailer)
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich "Midland Gindkand"**
Utility Tool & Body Co 151 E 16th St Clintonville Wis "Eagle"
Valley Tow-Rite Industries 27 E Vine St Lodi Calif
Weber Trailer & Mfg Co 8400 E Slauson Ave Pico-Rivera Calif (Mailing address P O Box 2473 Los Angeles 34 Calif)
Western Unit Corp 17747 E Railroad St City of Industry Calif

**COUPLINGS, BELT—See Fasteners, Belt**
**COUPLINGS, COMPRESSION — See Fittings Tube**

## COUPLINGS, Electro-Magnetic

**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic"**

## COUPLINGS, Flexible

**(See also Joints, Universal)**

Ajax Flexible Coupling Co Portage & English Sts Westfield N Y "Ajax" "Ajax-Dihedral"
Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Brown Engineering Co 131 N 3rd St Reading Pa "Buffer-Slot" "Kanti-Lever"
Bushings Inc 4358 Coolidge Highway Royal Oak Mich "Vibraflex"
Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Chicago Die Casting Mfg Co 2510 W Monroe St Chicago 12 Ill
Clevite Harris Products Inc Lockwood Rd Milan Ohio "Hyperbloc" "Silentbloc"
Congress Die Casting Div Tann Corp 3750 E Outer Drive Detroit 34 Mich
Cullman Wheel Co 1344 Altgold St Chicago 14 Ill
Diamond Chain Co 402 Kentucky Ave Indianapolis 7 Ind
Dodge Mfg Corp 500 Main St Mishawaka Ind "Flexidyne" "Dodge Para-Flex"
Falk Corp Box 492 Milwaukee 1 Wis "Airflex" "Steelflex" (Shaft)
Farrel-Birmingham Co 97 Main St Ansonia Conn "Farrel Gearflex"
Jones Machinery Div Hewitt-Robins Inc 4401 Roosevelt Rd Chicago 24 Ill
Koppers Co Metal Products Div 200 Scott St Baltimore 3 Md "Fast's" (Self-aligning)
Kupfrian Mfg Corp 351 State St Binghamton N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Lord Mfg Co 1635 W 12th St Erie Pa
Lovejoy Flexible Coupling Co 5000 W Lake St Chicago 44 Ill
**MORSE CHAIN CO Ithaca N Y "Morflex"**
Philadelphia Gear Corp King of Prussia Pa
Rampe Mfg Co 14915 Woodworth Ave Cleveland 10 Ohio
Ramsey Products Corp 55 Broadway Menands Albany N Y
Root Co B M Prospect & Sherman Sts York Pa
Sier-Bath Gear & Pump Co 9252 Hudson Blvd North Bergen N J
Union Chain & Mfg Co Sandusky Ohio
Waldron Corp John P O Box 791 New Brunswick N J "Francke" "Waldron"
Whitney Chain Co 237 Hamilton St Hartford 2 Conn
Wood's Son Co T B N Fifth Ave Chambersburg Pa "Wood's Sure-Flex"

## COUPLINGS, Fluid Line

Aeroquip Corp 300 S East Ave Jackson Mich
Aro Equipment Corp Bryan Ohio
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif "Tru-Flate" (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
**HANSEN MFG CO 4031 W 150th St Cleveland 35 Ohio "Push-Tite"**
**WEATHERHEAD CO Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind**

## COUPLINGS, Fluid (Machinery)

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Twin Disc Clutch Co 1328 Racine St Racine Wis

## COUPLINGS, Fluid, Torque Converter (Truck)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich "Fluid Drives"

**COUPLINGS, GENERATOR—See Couplings, Magneto, Generator and Water Pump**

## COUPLINGS, Hose

Aeroquip Corp 300 S East Ave Jackson Mich
Anchor Coupling Co 342 N Fourth St Libertyville Ill (Hydraulic)
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**
Goodrich Industrial Products Co B F 400 S Main St Akron 18 Ohio
**HANSEN MFG CO 4031 W 150th St Cleveland 35 Ohio (Air)**
Hunt Valve Co 1913 E Pershing St Salem Ohio "Quick as Wink"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill "Flex" "Imperial" "Eastman" "Hi-Seal"
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
Schrader's Son, A Div of Scovill Mfg Co 470 Vanderbilt Ave Brooklyn N Y "Tuck-Away" "Schrader"
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Shur-Lock"
Syracuse Gauge Co 113 S Midler Ave Syracuse 6 N Y

## COUPLINGS, Magneto, Generator and Water Pump

Hardy Mfg Corp W Pearl St Union City Ind
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"

**COUPLINGS, TUBE—See Fittings, Tube**

## COVERINGS, Floor (Bus or Truck)

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa "Armstrong's" "Armoflor" "Traffex" (Linoleum: "Automat" vinyl for station wagons)
Moore & Co Samuel Mantua Ohio "Rub-Bub" (Synthetic rubber)

**COVERS, AUTOMATIC RADIATOR — See Shutters, Radiator**

## COVERS, Oil Hole

**(Stamped or turned metal dustproof covers for oil holes)**

Bay State Stamping Co 372 Chandler St Worcester Mass "Bennett"
Bowen Products Corp Auburn N Y
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis

## COVERS, Storage Battery

American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace"
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
Richardson Co 2667 Lake St Melrose Park Ill "Valvseal"
Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts Trenton 4 N J (Rubber and plastic)

## COWLS

Champion Sheet Metal Co 2 Squires St Cortland N Y (To order)
Cutler Metal Products Co 1025 Line St Camden N J
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
York Corrugating Co Adams St & W Md R R York Pa

## CRANES, Crawler and Truck Mounted

American Hoist & Derrick Co 63 S Robert St St Paul 7 Minn
Hanson Clutch & Machinery Co Wall & Miami Sts Tiffin 15 Ohio
Hughes-Keenan Div U S Air Conditioning Corp P O Box 360 Delaware Ohio
Hyster Co 2902 N E Clackamas St Portland 8 Ore "Hystaway"
Link-Belt Speeder Corp 1201 Sixth St S W Cedar Rapids Iowa
Schield Bantam Co Waverly Iowa "Bantam"
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y
Star Machine & Tool Co 201 6th St SE Minneapolis 14 Minn
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio

## CRANES, Electric Traveling and/or Hand Traveling

American Monorail Co 1111 E 200th St Cleveland 17 Ohio
**BORG-WARNER INDUSTRIAL CRANES 1536 S Paulina St Chicago 8 Ill**
Chisolm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawando N Y "C-M" (Hand)
Cleveland Crane & Engineering Co 5866 E 283rd St Wickliffe Ohio "Cleveland Tramrail" (Under-running)
Conco Engineering Works Inc Mendota, Ill.
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H" (Overhead)
Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa (Hand)
Louden Machinery Co 1102 West Ave Fairfield Iowa
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich
Morgan Engineering Co Broadway & C & PRR Alliance Ohio (Overhead electric)
Northern Engineering Wks 210 Chene St Detroit 7 Mich
Reading Crane & Hoist Corp 2140 Adams St Reading Pa
Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio "R & M"
Round & Son David Box 198 Cleveland 39 Ohio (Overhead)
Shepard Niles Crane & Hoist Corp Montour Falls N Y
Steelweld Machine Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio "Cleveland" (Overhead)
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio (Hand)
Whiting Corp 157th & Lathrop Sts Harvey Ill
Wright Hoist Div of American Chain & Cable Co York Pa

## CRANES, Mobile (Gasoline or Diesel Operated)

Baldwin-Lima-Hamilton Corp Philadelphia Bank Bldg Philadelphia 7 Pa "Austin-Western" (Gasoline)
Hanson Clutch & Machinery Co Wall & Miami Sts Tiffin 15 Ohio
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H" (Gasoline)
Hughes-Keenan Div U S Air Conditioning Corp P O Box 360 Delaware Ohio "Roustabout"
Hyster Co 2902 N E Clackamas St Portland 8 Ore
Le Tourneau Inc R G 2399 S MacArthur St Longview Tex
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y "Krane Kar" "Karri-Go" "Lift-O-Crane" (Gasoline)

## CRANES, Monorail

American Monorail Co 1111 E 200th St Cleveland 17 Ohio
**BORG-WARNER INDUSTRIAL CRANES 1536 S Paulina St Chicago 8 Ill**
Cleveland Crane & Engrg Co 5866 E 283rd St Wickliffe Ohio
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich
Harnischfeger Corp 4400 W National Ave Milwaukee Wis "P & H"
Louden Machinery Co 1102 West Ave Fairfield Iowa
Northern Engineering Works 210 Chene St Detroit 7 Mich

## CRANES, Portable (Electrically Operated)

Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio "Elpar" (Also gas-electric)
Lewis-Shepard Products Inc 1050 Walnut St Watertown 72 Mass "L-S"
Sasgen Derrick Co 3101 W Grand Ave Chicago 22 Ill

## CRANES, Portable (Hand Operated)

**(See also Blocks or Hoists, Chain)**

Blackhawk Automotive Div Blackhawk Mfg Co 5325 W Rogers St Milwaukee 46 Wis
Borg-Warner Industrial Cranes 1536 S Paulina St Chicago 8 Ill
Cam Tool Co 1038 Larkin St San Francisco Calif "Blue Heron"
Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y "C-M"
Edgewater Automotive Div Auto Specialties Mfg Co St Joseph Mich "Fleet" (Hydraulic)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Hydraulic)
Lewis-Shepard Products Inc 1050 Walnut St Watertown 72 Mass "L-S"
Manley Div Douglas Motors Inc 1234 N 62nd St Milwaukee 13 Wis
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich
Round & Son David Box 198 Cleveland 39 Ohio "Round Porta-Lift" (Hydraulic)
Ruger Equipment Inc 615 W 4th St Uhrichsville Ohio (Hydraulic)
Sasgen Derrick Co 3101 W Grand Ave Chicago 22 Ill
Star Machine & Tool Co 201 6th St Minneapolis 14 Minn (Hydraulic)
Unit Mfg Co 1229 Harmon Pl Minneapolis 3 Minn

**CRANKCASE ATTACHMENTS—See Cleaners, Air (Crankcase Breather), also Plugs, Crankcase Drain**

**CRANKING MOTORS—See Motors, Starting (Air); also Motors, Starting (Electric)**

**CRANKPIN GRINDING MACHINES — See Machines, Grinding (Crankpin)**

**CRANKSHAFT BEARING GRINDING MACHINES—See Machines, Grinding (Crankshaft)**

## CRANKSHAFTS, Cast

Campbell Wyant & Cannon Foundry Co Muskegon Mich "Proferall"
Central Foundry Div General Motors Corp 37 Florence St Saginaw Mich "Arma Steel"

## CRANKSHAFTS, Finished

**(For crankshafts in the rough—see Crankshafts [Forgings])**

Atlas Crankshaft Corp Fostoria Ohio
Atlas Industries Inc 2000 E Main St Woodville Ohio
Continental Motors Corp Muskegon 32 Mich
Modern Machine Works Inc 5357 S Kirkwood Ave Cudahy Wis
Ohio Crankshaft Co 3800 Harvard Ave Cleveland 5 Ohio

## CRANKSHAFTS (Forgings)

Bethlehem Steel Co Bethlehem Pa
Finkl & Sons Co A 2011 Southport Ave Chicago 14 Ill "Mo-Lyb-die"
Ladish Co 5481 S Packard Ave Cudahy Wis
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
Steel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio
Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio
Unit Drop Forge Div of Fuller Mfg Co 1903 S 62nd St Milwaukee 1 Wis
Williams & Co J H 400 Vulcan St Buffalo 7 N Y
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**
Wyman-Gordon Co Ingalls-Shepard Div 14600 Wood St Harvey Ill

**CREASING and CUTTING PRESSES — See Presses, Cutting and Creasing**

**CRIMPING MACHINES — See Machines, Crimping**

**CRIMPING TOOLS—See Tools, Crimping**

## CUPS, Leather

Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Burgess Leather Co A E Brigham Hill Rd Grafton Mass
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "Sirvis"**
Circle Z RFD #2 Promfret Center Conn
**EXCELSIOR LEATHER WASHER MFG CO 720 Chestnut St Rockford Ill "X-L"**
Garlock Inc 402 Main St Palmyra N Y
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Marsh Co Charles W 32 Hudson St Muskegon Mich "Thermo"
Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del

## CUPS, Oil and Grease

American Stamping Co 310 E Burnham St Battle Creek Mich
Gits Bros Mfg Co 1846 S Kilbourne Ave Chicago 23 Ill (Oil)
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill (Grease)
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite" (Hydraulic reservoir)

## CUPS, PRIMING

Dole Valve Co 6201 Oakton St Morton Grove Ill
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Lincoln Brass Works 2067 12th St Detroit 16 Mich

## CUPS and CONES, Ball

Crosby Co 183 Pratt St Buffalo N Y

**CURRENT REGULATORS — See Regulators, Generator Current & Voltage (Auto)**

## CUSHIONS, Die

Bliss Co E W 1375 Raff Rd S W Canton O "Bliss-Marquette"
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill
Danly Machine Specialties Inc 2100 S Laramie Ave Cicero Chicago 50 Ill
Dayton Rogers Mfg Co 2824 13th Ave S Minneapolis 7 Minn (Pneumatic)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
James Engrg & Mchry Co 11368 Allen Rd Taylor Mich "Jemco"
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago Ill**

## CUSHIONS, Seat (Rubber)

Bostrom Corp 133 W Oregon St Milwaukee 4 Wis
Dunlop Tire & Rubber Corp Sheridan Drive & River Rd Buffalo 5 N Y "Dunlop Pillo Foam"
Firestone Rubber & Latex Products Co Fall River Mass
General Seating Co 220 Main St Topton Pa
Goodrich B F Sponge Products Howe Ave Shelton Conn "Texfoam"
Karpex Mfg Co 1436 E 19th St Indianapolis 7 Ind "Black Diamond" (Truck)
New York Rubber Corp Airubber Div 100 Park Ave New York 17 N Y "Airubber" (Inflatable)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y "U S Koylon"

## CUSHIONS, Seat (Spring)

**(Including springs and upholstery)**

Bostrom Corp 133 W Oregon St Milwaukee 4 Wis
Fort Pitt Mfg Co 1501 Preble Ave N S Pittsburgh 33 Pa
General Seating Co 220 Main St Topton Pa
Goshen Cushion & Body Co N Second St Goshen Ind "Better Built"
Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

## CUT-OUTS, Reverse Current

**(For automatically connecting generator to battery when voltage is high enough to charge battery and disconnecting it when voltage is too low.)**

American Motor Products Co Fond du Lac Wis "Ampco"
Echlin Mfg Co U S Route 1 Branford Conn
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Guaranteed Parts Co Seneca Falls N Y "GP"
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
New York Coil Co 42 Second Ave Phoenixville Pa "Nyco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak"
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis

**CUTTER GRINDERS—See Machines, Grinding (Reamer and Cutter)**

**CUTTERS, BAR—See Cutters, Rod and Bar**

## CUTTERS, Deburring

Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich

## CUTTERS, Electrode Dressing

Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich

**CUTTERS, GASKET—See Cutters, Washer and Gasket**

## CUTTERS, Gear

National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"

## CUTTERS, Keyway

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Cowles Tool Co 2036 W 110th St Cleveland Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill
Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Continental"
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich
Jarvis Corp Middletown Conn
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Threadwell Tap & Die Co Greenfield Mass
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass

## CUTTERS, Milling

Apex Tool & Cutter Co 235 Canal St Shelton Conn
Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich
Barber-Colman Co 1300 Rock St Rockford Ill
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (End mills)
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio
Cowles Tool Co 2086 W 110th St Cleveland Ohio "Air Line" "Rigid Back" (Serrated blade)
Do All Co 254 N Laurel Ave Des Plaines Ill
Douglas Tool Co 2300 E Nine Mile Rd Hazel Park Mich "Douglas Hi-Helix" (Contour)
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill "Ecco" (Spiral flute)
Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Continental"
Ford Mfg Co M A P O Box 628 Davenport Iowa (Carbide)
Futurmill Inc 6360 Highland Rd Pontiac Mich
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich "E-Con-O-Mill" "Gair-Lock"
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich "Go & Go"
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "GTD" "GTD-Ampco"
Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn "H W"
Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Ideal Industries Inc 1014 Park Ave Sycamore Ill "Ideal Long Life" (Mica)
Illinois Tool Works Tool & Instrument Div 2501 N Keeler Ave Chicago Ill "Illinite"
Ingersoll Milling Machine Co Rockford Ill
J & S Tool Co 87 Dorsa Ave Livingston N J
Jarvis Corp Middletown Conn
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide)
Lovejoy Tool Co 133 Main St Springfield Vt
McCrosky Tool Corp S Main St Meadville Pa "McCrosky Jack-Lock"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Meyers Co W F 1017 14th St Bedford Ind "Meyco"
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
Motch & Merryweather Machinery Co 1250 E 222nd St Cleveland 7 Ohio
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
National Twist Drill & Tool Co Rochester Mich
Nelco Tool Co 266 Center St Manchester Conn (Carbide tipped)
O K Tool Co Milford N H
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Curvex"
Precise Products Corp 3715 Blue River Rd Racine Wis
Production Tool Co of America 6474 Le Grand Ave Detroit 11 Mich
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich (Carbide)
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand"
Staples Tool Co 2352 Glendale-Milford Rd Cincinnati 15 Ohio
Star Cutter Co 34500 Grand River Ave Farmington Mich
**TOMKINS-JOHNSON CO 2425 W Michigan Ave Jackson Mich "T-J"**
Tungsten-Carbide Tool Co 26250 W 7 Mile Rd Detroit 40 Mich "TCT"
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass

Union Twist Drill Co Butterfield Div Derby Line Vt "Butterfield"
Vascoloy-Ramet Corp 800 Market St Waukegan Ill "V-R"
Viking Tool Co 1000 Nichols Rd Shelton Conn
Weldon Tool Co 3000 Woodhill Rd Cleveland 4 Ohio
Wendt-Sonis Co 10th & Collier St Hannibal Mo "W-S"
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich "Rigidcut"
Wetmore Reamer Co 420 N 27th St Milwaukee 8 Wis
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich (End mills)
Willey's Carbide Tool Co 1340 W Vernon Highway Detroit 1 Mich

## CUTTERS, Rod and Bar

(Hand power)

J & S Tool Co 87 Dorsa St Livingston N J
Lewthwaite Machine Co T H 324 E 47th St New York 17 N Y "THL"
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Porter Inc H K 74 Foley St Somerville 43 Mass "Porter HKP"
Tucker Inc W W & C F 618 Capitol Ave Hartford Conn "Hercules"

## CUTTERS, Sheet Metal

(For use with portable electric drills or air compressors)

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "Zip-Gun" (Pneumatic)**
Fenway Machine Co 3107 N Broad St Philadelphia Pa
Ingersoll-Rand Co 11 Broadway N Y 4 N Y "ImpaCutter" (Pneumatic)
M-M-A Inc Coho Bldg Lancaster Pa "Royal Clipper"

## CUTTERS, Tubing

(Hand power)

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Cornwell Quality Tools Co Mogadore Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill "Erco"
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Fairmount Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill "Hi-Duty" & "Imperial"
Kennedy Service Tools Inc 976 Evans Ave Akron 5 Ohio
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate-Maker"
National Machine & Tool Co 4077 Page Ave Jackson Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" "New Britain"
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio
Penn Brass & Copper Co 3837 W 20th St Erie Pa "Papco"
Quality Tools Corp Railroad St New Wilmington Pa
Reed Mfg Co Box 1321 Erie Pa (Pipe)
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"
Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich (End deburring)
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Trimont Mfg Co Div of St Pierre Chain Corp 50 Frank St Worcester 4 Mass "Trimo"
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Fort Wayne Ind (Hand)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

## CUTTERS, Washer and Gasket

Cincinnati Tool Co 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave"
Clark Co Robert H 9330 Santa Monica Blvd Beverly Hills Calif
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Millers Falls Co 57 Wells St Greenfield Mass "Goodell-Pratt"
Osborne & Co C S Jersey & Second Sts Harrison N J
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill

**CUTTING ALLOYS—See Alloys, Cutting**
**CUTTING AND CREASING PRESSES — See Presses Cutting and Creasing**
**CUTTING DIES, for LEATHER and FABRICS —See Dies, Cutting, for Leather, Fabrics and Rubber**
**CUTTING OILS — See Compounds, Cutting Fluid**
**CUTTING OIL FILTERS—See Filters, Cutting Oil**
**CUTTING OFF MACHINES—See Machines, Cutting-off**
**CUTTING TOOLS—See Tools, Cutting**
**CYLINDER CASTINGS—See Castings, Iron**
**CYLINDER GAGES—See Gages, Cylinder; also Gages, Cylinder Compression**
**CYLINDER HEADS—See Heads, Cylinder**
**CYLINDER HEAD MILLING MACHINES—See Machines, Milling (Cylinder Head)**
**CYLINDER HEAD VOLUME TESTERS—See Testers, Cylinder Head Volume**
**CYLINDER MACHINERY AND TOOLS—See Hones, Cylinders; also Machines, Boring; also Machines, Grinding (Cylinder); also Machines, Honing (Cylinder)**
**CYLINDER SLEEVES—See Sleeves, Cylinder**
**CYLINDRICAL GAGES—See Gages, Cylindrical**
**CYLINDRICAL GRINDERS — See Machines, Grinding**

## CYLINDERS, Air and Hydraulic

Allenair Corp 255 E Second St Mineola N Y
Anker-Holth Div of Wellman Engrg Co 2723 Connors St Port Huron Mich
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Corp John S 301 S Water St Rockford Ill (Hydraulic)
Bellows-Valvair Div of International Basic Economy Corp 222 W Market St Akron 9 Ohio
Bendix Lakeshore Div Bendix Corp Lake Shore Drive St Joseph Mich (Hydraulic)
Benton Harbor Engrg Works Inc 622 Langley Ave Benton Harbor Mich "BHEW" (Hydraulic)
Bethlehem Steel Co Bethlehem Pa
Blackhawk Automotive Div Blackhawk Mfg Co 5325 W Rogers St Milwaukee 46 Wis
Carter Controls Inc 2800 Bernice Rd Lansing Ill
Cascade Mfg Co 2201 N E 201st St Portland 20 Ore (Hydraulic)
Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio (Hydraulic)
Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 33 Mo (Air)
Cushman Chuck Co 806 Windsor St Hartford 2 Conn (Air)
Dukes Co 3999 N 25th Ave Schiller Park Ill (Hydraulic)
Dynex Inc 777 Dynex Drive Pewaukee Wis (Hydraulic)
Erickson Tool Co 34350 Solon Ohio (Air)
Hanna Engineering Works 1765 Elston Ave Chicago 22 Ill "Powrdraulic"
**HANNIFIN CO 543 South Wolf Rd Des Plaines Ill "Hanna-Powr" "Powrmation" Powdraulic"**
Hyco Inc Ninth & Virginia Aves Ashland Ohio (Hydraulic)
Hydraulic Power Div Hydraulic Press Mfg Co 1000 Marion Rd Mount Gilead Ohio Div of Koehring Co "H-P-M" (Hydraulic)
Hydraulic Unit Specialties Co Airport Rd (P O Box 257) Waukesha Wis
Hydro-Line Mfg Co 5600 Pike Rd Rockford Ill
James Engrg & Machinery Co 11368 Allen Rd Taylor Mich "James"
Logansport Machine Co 860 Center Ave Logansport Ind
Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill
Miller Fluid Power Div Flick-Reedy Corp York & Thorndale Rds Bensenville Ill
Mo-Bar Hydraulics Inc Crystal Lake Ill
Modernair Corp 400 Preda St San Leandro Calif
New Albany Machine & Tool Co New Albany Pa
Nopak Div Galland-Henning Mfg Co 2753 S 31st St Milwaukee 46 Wis
Oilgear Co 1560 W Pierce St Milwaukee 4 Wis
**ORTMAN-MILLER MACHINE CO 19 143rd St Hammond Ind "O-M"**
Owatonna Tool Co 316 N Cedar St Owatonna Minn
Production Devices Inc Davis St Whitehall N Y
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
**S-P MFG CORP 30201 Aurora Rd Solon Ohio (Rotating and non-rotating)**
Sheffer Corp 326 W Wyoming Ave Cincinnati 15 Ohio "Sheffer" "Valv-N-Hed"
Star Hydraulics Inc 2638 Davisson St River Grove Ill
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Teer Wickwire & Co 1801 Wildwood Ave Jackson Mich "Lindberg"
Thompson Products Michigan Div Thompson-Ramo Wooldridge Inc 34201 Van Dyke Ave Warren Mich
**TOMKINS-JOHNSON CO 2425 W Michigan Ave Jackson Mich "T-J"**
Unit Mfg Co 1229 Harmon Pl Minneapolis 3 Minn (Hydraulic)
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif (Seat)
Veet Industries 25753 Groesbeck Highway E Detroit Mich
Vickers Inc Machinery Hydraulics Div Adm & Engrg Center Detroit 32 Mich (Hydraulic)
Wisconsin Hydraulics Inc 3165 N 30th St Milwaukee 16 Wis (Hydraulic)

## CYLINDERS, Engine (Auto)

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Steel and iron aluminum finned)

## CYLINDERS, LP-G Fuel (For Industrial Trucks)

Pressed Steel Tank Co 1445 S 66th St Milwaukee 14 Wis "Hackney"

## DAMPERS, Vibration (Engine)

Houdaille Industries Inc Buffalo Hydraulics Div 537 E Delavan Ave Buffalo 11 N Y (Torsional)
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M"
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind (Torsional)**
World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

**DASH SIGNAL INDICATORS—See Lamps, Tell Tale**

## DASHES, Metal

Cutler Metal Products Co 1025 Line St Camden N J
Electric Autolite Co Toledo 1 Ohio "Autolite"
Peninsular Metal Products Corp 1365 Jarvis St Detroit 20 Mich
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis

**DATA PROCESSING SYSTEM—See Systems, Data Processing**

## DEFROSTERS, Windshield (Warm Air)

Arvin Industries Inc 13th St & Big Four RR Columbus Ind
Eaton Mfg Co Heater Div E 65th St & Central Ave Cleveland 4 Ohio (Rear window)
Evans Products Co 13101 Eckles Rd Plymouth Mich
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
Kysor Heater Co 1100 W Wright St Cadillac Mich

**DEFROSTER HOSE—See Hose, Defroster**
**DEFROSTING FANS—See Fans, Defrosting & Ventilating, Electric (Auto)**

## DEGASSERS, Bus

Fageol Co R D Box 328 Kent Ohio

## DEMAGNETIZERS

**L-W CHUCK CO 24 S St Clair St Toledo 4 Ohio**

**DEPTH GAGES—See Gages, Depth**
**DESCALING COMPOUNDS—See Compounds, Descaling**

## DETECTORS, Flame

**MINNEAPOLIS-HONEYWELL REGULATOR CO 2753 Fourth Ave S Minneapolis 8 Minn "Ultra-Vision"**

**DIAL GAGES—See Gages, Dial**

## DIALS, Instrument

Acme Metal Etching Co P O Box 312 Monroe N C
American Insulator Corp New Freedom Pa "Alco"
American Name Plate & Mfg Co 4254 W Arthington St Chicago 24 Ill "Anco"
Croname Inc 6201 Howard St Chicago 48 Ill (Metal glass and plastic)
Electric Autolite Co Toledo 1 Ohio "Autolite"

## DIALS, Instrument—continued

Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y
Grammes & Sons Inc L F 371 Union St Allentown Pa
Metal Decorating & Mfg Co 2021 W Fulton St Chicago 12 Ill
Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis "Neco"
Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill
Ward's Name Plates 8504 Lyndon Ave Detroit 38 Mich
Wilson Camera Co 1401 Lawrence Rd Havertown Pa (Plastic)

**DIAMOND TOOLS—See Tools, Cutting**

## DIAMONDS, Industrial

**(See also Alloys, Cutting)**

Crafts Co Arthur A 603 Newbury St Kenmore Square Boston 15 Mass
Dearborn Glass Co 2414 W 21st Chicago, Ill
J & S Tool Co 87 Dorsa St Livingston N J
Ross-Adseal Inc 738 Lord St Indianapolis 2 Ind (Sole Distributors Ryan Sales Engineering Co 82 Lothrop Ave Detroit Mich)
Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y
Wheel Trueing Tool Co 3200 W Davison Ave Detroit 38 Mich "Tru-Line"

**DIAPHRAGM MATERIAL—See Fabric, Synthetic (For parts)**

**DIE CASTING DIES—See Dies, Die Casting**

**DIE CASTING MACHINES—See Machines, Die Casting**

**DIE CASTINGS—See Castings, Die**

**DIE CUTTING MACHINES — See Machines, Die Sinking**

**DIE GRINDING MACHINES—See Machines, Grinding (Die)**

## DIE HEADS, Self Opening

Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "H & G"
Geometric Tool Co Div of United-Greenfield Corp Blake & Valley Sts New Haven 15 Conn
Jones & Lamson Machine Co 523 Clinton St Springfield Vt
Landis Machine Co Fifth & Church Sts Waynesboro Pa "Lanco" "Landex" "Landmatic"
Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio
National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco Vers-O-Tool"
Rickert-Shafer Co 612 W 11th St Erie Pa "R-S"

**DIE MAKING MACHINERY (Steel Rule)—See Machines, Die Making (Steel Rule)**

**DIE SAWING AND FILING MACHINES—See Machines, Sawing and Filing**

## DIE SETS (Forging, Stamping, Etc.)

City Machine & Tool Co Div of Globe-Wernicke Industries Inc 5130 Detroit Ave Toledo 12 Ohio (For metal stampings for auto and truck bodies fenders and hoods)
Danly Machine Specialties Inc 2100 S Laramie Ave Cicero Chicago 50 Ill
Dreis & Krump Mfg Co 7424 Loomis Blvd Chicago 36 Ill "Chicago"
Kalamazoo Stamping & Die Co 1815 Palmer St Kalamazoo Mich (Stamping)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St Pittsburgh 3 Pa (Forging)
National Lead Co 111 Broadway New York 6 N Y "Kirksite"
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn (Stamping)
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Superior Steel Products Corp 2754 S 19th St Milwaukee 15 Wis
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
Union Mfg Co 296 Church St New Britain Conn

**DIE SINKING MACHINES—See Machines, Die Sinking**

**DIE STOCKS—See Stocks, Die**

## DIES, Cutting, for Leather, Fabrics and Rubber, Etc.

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Bernal Tool & Machine Co 18624 Mt Elliott Ave Detroit 34 Mich
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill
Richards Co J A 903 N Pitcher St Kalamazoo Mich "Electromatic"

## DIES, Die Casting

Badger Die Casting Corp 201 W Oklahoma St Milwaukee 7 Wis
Century-Detroit 6101 Concord Ave Detroit 11 Mich
Chicago Mold Engrg Co 4141 Washington St Hillside Ill
Federal Die Casting Co 2222 Elston Ave Chicago 14 Ill
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich

## DIES, Embossing

**ACROMARK CO 9 Morrell St Elizabeth 4 N J "Acrodie" "Acroprene"**
Matthews & Co Jas H 3942 Forbes Ave Pittsburg 13 Pa "Tuf-Face" "Lo Stress"
Pannier Corp 207 Sandusky St Pittsburgh 12 Pa
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Schmidt Inc Geo T 4100 Ravenswood Ave Chicago 13 Ill "Hi-Duty"
Superior Seal & Stamp Co 1401 Vermont Ave Detroit 16 Mich

## DIES, JIGS, TOOLS and FIXTURES

**(See also Die Sets [Forging, Stamping, etc.])**

A K Tool Co Route 22 Mountainside N J
Accurate Bushing Co 443 North Ave Garwood N J "Lift Swing" (Drilling fixture)
Acme Precision Products Inc 215 N Findlay St Dayton 3 Ohio
Allen Tool Corp 308 Maltbie St Syracuse 3 N Y
Allied Products Corp Richard Bros Die & Prototype Div 12677 Burt Rd Detroit 23 Mich
Banner Die Tool & Stamping Co 1308 Holly Ave Columbus 8 Ohio
Barth Corp 12650 Brookpark Rd Cleveland 30 Ohio
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa
Century-Detroit 6101 Concord Ave Detroit 11 Mich
Cincinnati Engrg Tool Co P O Box 84 Winton Place Cincinnati 32 Ohio "Cetco"
Cleveland Universal Jig Co 13328 St Clair Ave Cleveland 10 Ohio
Congress Tool & Die Div Tann Corp 3300 Denton St Detroit Mich
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich
Distel Tool & Machine Co 12800 E 10 Mile Rd Detroit 5 Mich
Everard Tap & Die Corp 215 E 144th St N Y 51 N Y
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco" (Jigs and fixtures)
Garland Mfg Co 10533 Gratiot Ave Detroit 13 Mich
H F & M Tool Co 31 Fulton St New aven Conn
Harig Mfg Corp 5757 W Howard St Chicago 48 Ill
Heidrich Tool & Die Co 10400 Capitol Ave Oak Park 37 Mich
Huckins Tool & Die Inc 1700 Mishawaka Ave South Bend Ind
Jarecki Corp 320 Hall St S W Grand Rapids 2 Mich (Dies and fixtures)
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kickhaefer Mfg Co 901 S Second St Milwaukee 4 Wis (Dies and tools)
Lidseen of North Carolina Inc 1000 First St Hayesville N C
Machine Products Corp 6771 E McNichols Rd Detroit 12 Mich (Jigs tools and fixtures)
Mercury Tool & Die Co 1600 E Nine Mile Rd Detroit (Ferndale) 20 Mich
Merz Engrg Inc 200 S Hardin St Indianapolis 7 Ind
Nu-Way Industries Inc Lansing Mich (Plastic dies and fixtures)
Oakwood Tool & Engrg Co 3600 Salem Ave Dayton 6 Ohio
Olofsson Corp 2727 Lyons Ave Lansing 2 Mich
Parker & Sons Co A E 2280 W Grand River Ave Howell Mich
Peters Tool Co 114 E Scott St Milwaukee 4 Wis
Production Die & Stamping Co 1834 Garfield Ave Detroit 7 Mich
Rockford Die & Tool Works Inc 1816 17th Ave Rockford Ill
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Sieweke Tool Co 2862 E Grand Blvd Detroit 2 Mich (Jigs and fixtures)
Size Control Co 2500 Washington Blvd Chicago 12 Ill (Jigs and fixtures)
Smillie & Co C M 1162 Woodward Heights Blvd Ferndale 20 Mich (Tools and fixtures)
Snow Mfg Co 435 Eastern Ave Bellwood Ill (Fixtures and tools)
Standard Tool & Mfg Co 2500 Meldrum Ave Detroit 7 Mich (Jigs tools and fixtures)
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
Wisconsin Drill Head Co 4987 N 124th St Butler Wis (Jigs and fixtures)
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

**DIES, MARKINGS—See Stamps, Steel**

**DIES, STANDARD—See Punches and Dies, Standard**

## DIES, Thread Rolling

Reed Rolled Thread Die Co 791 Main St Holden Mass

## DIES, Trimming

Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Vulcan Tool Co 730 Lorain Ave Dayton 10 Ohio

## DIES, Welding

Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis "Ampco-Weld" (Flash butt and projection)
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind (Resistance)
S-M-S Corp 8605 Livernois Ave Detroit 4 Mich

## DIES and SCREW PLATES

**(See also Die Heads, Self-Opening)**

Bay State Tap & Die Co Chauncy St Mansfield Mass
Card Div Union Twist Drill Co S W Rumford Ave Mansfield Mass "Diamond" "Improved" "Favorite" (Screw plates)
Geometric Tool Co Div of United-Greenfield Corp Blake & Valley Sts New Haven 15 Conn (Solid adjustable die heads)
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "Little Giant" "Little Giant Jr" "O K Jr"; "Acorn" "GTD" (Dies)
Keystone Reamer & Tool Co Millersburg Pa
Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio (Solid adjustable die heads)
Rinck-McIlwaine Inc 16 Hudson St New York N Y "Rimac-Hexset"
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand" (Dies)
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass
Union Twist Drill Co Butterfield Div Derby Line Vt "Butterfield" "Thred-Rite" "Work-Rite"
Vermont Tap & Die Corp Main & Grove Sts Lyndonville Vt

**DIESEL ENGINES—See Engines, Diesel; also Engines, Industrial**

**DIESEL ENGINE FUEL FILTERS—See Filters, Fuel (For Diesel Engines)**

**DIESEL ENGINE TESTERS — See Testers, Diesel Engine**

**DIESEL INJECTION EQUIPMENT—See Injection Systems, Diesel & Gasoline Engine**

## DIFFERENTIALS, Auto

**(See also Axles, Rear; for individual gears—see Gears and Pinions, Rear Axle)**

Automotive Gear Div Eaton Mfg Co S Eighth & C Sts Richmond Ind "Double Diamond"
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Splicer Thornton Powr-Lok" (Locking)**
**DETROIT AUTOMOTIVE PRODUCTS CORP 8701 Grinnell Ave Detroit 13 Mich "No Spin" (Automatic locking for trucks)**
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
**EATON MFG CO Pump Div W Hanover St Marshall Mich "Eaton Trac-Aide"**
**FAIRFIELD MFG CO State Rd No 52 South Lafayette Ind**
Saco-Lowell Automotive Div Saco-Lowell Shops Box 111 Saco Maine
**WARNER AUTOMOTIVE Div Borg-Warner Corp S Wayne St Auburn Ind**

**DIPPING BASKETS—See Baskets, Dipping**

**DIRECTIONAL SIGNAL CONTROLS (Auto)—See Controls, Directional Signal (Auto)**

**DIRECTIONAL SIGNAL SWITCHES — See Switches, Direction Indicating Signal**

**DIRECTIONAL SIGNALS—See Signals, Directing, Indicating (Auto and Truck)**

**DISC WHEELS—See Wheels, Auto (Disc)**

## DISCS, Abrasive Grinding

(Abrasive wheels for use in grinding machines)

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Armour Alliance Industries 16123 Armour St N E Alliance Ohio
Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo "Barrett Acracut"
Bay State Abrasive Products Co 12 Union St Westboro Mass "Dura Cut"
Behr-Manning Corp 6118 Howe St Troy N Y "Adalox" "Bear" "Durite" "Metalite" "Mushroom" "Resinall" "Screen-Bak" "Speed-Wet" "Vizi-Disc"
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill "Besly-Titan"
Carborundum Co Buffalo Ave Niagara Falls N Y
Clover Mfg Co 327 Main St Norwalk Conn
Field Abrasive Mfg Co 1303 Stanley Ave Dayton 4 Ohio "Famco" "Field's"
Gardner Machine Co 444 E Gardner St Beloit Wis
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio
Mid-West Abrasive Co 510 S Washington St Owosso Mich
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn
**NORTON CO 1 New Bond St Worcester 6 Mass**
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"

## DISCS, Clutch

(For pressure plates — See Plates, Clutch [Pressure])

Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 25 Ind
Becker Bros Carbon Co 3450 S 52nd Ave Cicero 50 Ill (Carbon)
Borg & Beck Div Borg-Warner Corp 6558 S Menard Ave Chicago 38 Ill
Burgess-Norton Mfg Co 737 Peyton St Geneva Ill "B-N"
**CURTIS MFG CO Clutch Disc Div 1927 Kienlen Ave St Louis 33 Mo (Steel or bronze)**
Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Monmouth"
General Metals Powder Co 130 Elinor Ave Akron 5 Ohio "Gempco"
Ingersoll Products Div Borg-Warner Corp 1000 W 120th St Chicago 43 Ill
Ingersoll Steel Div of Borg-Warner Corp P O Box 273 New Castle Ind
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill
Wellman Co S K 200 Egbert St Bedford Ohio "Velvetouch Feramic" (Metallic)

## DISCS, Clutch (Faced)

Accurate Re-Nu Clutch Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill "Powerflex"
Burges-Norton Mfg Co 737 Peyton St Geneva Ill "B-N"
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Warner Automotive Div Borg-Warner Corp S Wayne Ave Auburn Ind
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

**DISCS, SAW—See Blades, Saw (Circular)**

## DISCS, Universal Joint

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
Auburn Mfg Co Pease Ave & Stack St Middletown Conn
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"

## DISCS, Wheel

Brown-Lipe-Chapin Div of General Motors Corp Town Line Rd Syracuse N Y
Del-Krome Corp 44 West St Walton N Y "Kromweels"
Gar Wood Industries Inc Wayne Mich "Gar Wood Cover-alls" (Full and wire)
Helms Industrial Development Co 220 S Kirk St West Lafayette Ohio (Wire)
Hurd Lock & Mfg Co Almont Mich
Ingersoll Products Div Borg-Warner Corp 1000 W 120th St Chicago 43 Ill (Truck)
Namsco Inc 333 31st Ave Bellwood Ill "National"
United Metal Craft Co 800 Lowell St Ypsilanti Mich "Cover-All" (Wire)

**DISPENSERS, GREASE — See Lubricators, Portable (Air, Electric and Hand) (High Pressure)**

**DISTRIBUTOR PARTS—See Parts, Magneto, Coil and Distributor**

## DISTRIBUTORS, Ignition

**DELCO-REMY Div General Motors Corp 2401 Columbus Ave Anderson Ind**
Electric Autolite Co Toledo 1 Ohio "Autolite"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich (Also combination governor and distributor)
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (For Ford and Mercury cars; sole distributors, Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Shurhit Products Inc 845 S Market St Waukegan Ill
Wico Ignition Div Globe-Union Inc West Springfield Mass

**DISTRIBUTOR TESTING INSTRUMENTS—See Instruments, Distributor Testing**

## DIVIDERS, Power (Rear Axle)

Eaton Mfg Co Axle Div 739 E 140th St Cleveland 10 Ohio

**DIVIDING HEADS—See Heads, Dividing**

**DOCKS, TRUCK LOADING — See Ramps, Truck Loading**

## DOLLIES, Industrial

Colson Corp Elyria Ohio
Fairbanks Co 393 Lafayette St N Y 3 N Y
Hamilton Caster & Mfg Co 1517 Dixie Highway Hamilton Ohio
Industrial Specialties Inc 22930 Sherwood Ave Warren Mich "I S I"
Island Equip Corp 1090 E 31st St Hialeah Fla "Ultimate"
Magline Inc 952 Murray Rd Pinconning Mich "Magliner"
Mighty Mover Co 1701 E Louisiana Ave Denver Colo
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del
Nutting Truck & Caster Co 1201 W Division St Faribault Minn
Orangeville Mfg Co Orangeville Pa

**DOME LIGHTS—See Lamps, Back-up, Cowl, Dome, Fender, Tail, etc.**

**DOOR CHECKS, CAR — See Checks, Door (Car and Truck)**

## DOORS, Truck and Trailer

Barker-Colman Co 1300 Rock St Rockford Ill (Overhead)
Hackney & Sons J A 400 Hackney Ave Washington N C (Plastic for trucks and moving vans)
Kinnear Mfg Co 2100 Fields Ave Columbus 16 Ohio (Steel rolling)
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B" (Steel)
Met-L-Wood Corp 6755 W 65th St Chicago 38 Ill (Truck body)

**DRAG LINKS—See Connections, Steering**

**DRAIN PLUGS—See Plugs, Crankcase Drain; also Plugs, Drain (Magnetic); also Plugs, Pipe**

**DRAW BARS—See Bars, Draw**

**DRAWING MACHINES (BAR AND WIRE)—See Machines, Drawing (Bar and Wire)**

**DRAWING PRESSES — See Presses, Deep Drawing**

## DRESSERS, Grinding Wheel

Abrasive Dressing Tool Co 14528 2nd Blvd Detroit 3 Mich "Red Band" "Di-X"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Calder Mfg Co 1322 Loop Rd Lancaster Pa
Cleveland Industrial Tool Co Box 84 Chardon Ohio "Citco"
Desmond-Stephan Mfg Co 317 S Walnut St Urbana Ohio
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich "Carboloy"
Hanchett Mfg Co 906 N State St Big Rapids Mich
J & S Tool Co 87 Dorsa Ave Livingston N J "Form-Master" "Fluidmotion"
Lee Co K O Congress at First Ave S E Aberdeen S D
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
Moore Special Tool Co 740 Union Ave Bridgeport Conn
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Diaform"
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac"
Sheffield Corp 721 Springfield St Dayton 1 Ohio "Crushtrue"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand"
Threadwell Tap & Die Co Greenfield Mass
Vinco Corp 9111 Schaefer Highway Detroit 28 Mich
Wheel Trueing Tool Co 3200 W Davison Ave Detroit 38 Mich "Tru-Grit"
Willey's Carbide Tool Co 1340 W Vernon Highway Detroit 1 Mich

**DRILL, ENAMELED — See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery, etc.)**

**DRILL GAGES—See Gages, Drill and Wire**

**DRILL GRINDERS—See Machines, Grinding (Drill)**

**DRILL JIGS—See Jigs, Drill**

**DRILL PRESSES—See Machines, Drilling**

**DRILL SOCKETS and SLEEVES — See Sockets and Sleeves, Drill**

**DRILLING BUSHINGS—See Bushings, Jig**

**DRILLING HEADS—See Heads, Drilling**

**DRILLING MACHINE SPINDLES—See Spindles, Drilling and Grinding Machine**

**DRILLING MACHINES—See Machines, Drilling**

## DRILLS, Portable Electric

(See also Machines, Flexible Shaft [Portable Electric])

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Holgun"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "Universal" "Hicycle" "Super Cycle"**
Cummins Portable Tools Div of John Oster Mfg 5055 N Lydell Ave Milwaukee 17 Wis
Dumore Co 1300 17th St Racine Wis
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Jones Motorola Corp 432 Fairfield Ave Stamford Conn
Kett Tool Co 5055 Madison Rd Cincinnati 27 O
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis
Modern Mfg Co 680 Davisville Rd Willow Grove Pa "Trade Master" (Combination drill and hack saw)
Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Drill"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor Speed Drills"
Stanley Electric Tool Div of Stanley Works 480 Myrtle St New Britain Conn "Mighty Midget"
Thor Power Tool Co 175 State St Aurora Ill
United State Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Wen Products Inc 5806 Northwest Highway Chicago 31 Ill

## DRILLS, Portable Pneumatic

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Air-Speed Tool Co 1502 W Slauson Ave Los Angeles 47 Calif
Aro Equipment Corp Bryan Ohio
Brown Tool Mfg Co 9422 Trenton Ave St Louis 14 Mo "Solar"
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 7 N Y "CP"**
**CLECO AIR TOOLS Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex "Cleco"**
Gardner-Denver Co S Front St Quincy Ill
Ideal Industries Inc 1014 Park Ave Sycamore Ill "Ideal Air Horse"
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio

## DRILLS, Portable Pneumatic—continued

Thor Power Tool Co 175 State St Aurora Ill
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## DRILLS, Twist

Ace Drill Corp 2600 E Maumee St Adrian Mich
Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux"
American Twist Drill Co 14301 W Chicago Blvd Detroit 28 Mich
Avildsen Inc 322 S Green St Chicago Ill
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill
Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill
Cleveland Twist Drill Co 1242 E 49th St Cleveland Ohio "Cle-Forge"
Continental Drill Corp 555 W Adams St Chicago 6 Ill
Cornwell Quality Tools Co Mogadore Ohio
Dixon Inc Wm 32 E Kinney St Newark 1 N J
Do All Co 254 N Laurel Ave Des Plaines Ill
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "GTD-Ampco"
Hanson Co Henry L 25 Union St Worcester 8 Mass
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Keystone Reamer & Tool Co Millersburg Pa
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
National Twist Drill & Tool Co Rochester Mich
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"
North American-Viking Drill Co 470 Kittson St St Paul 1 Minn
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Spiral Step Tool Co 5400 N Damen Ave Chicago 25 Ill (Spiral step)
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Red Shield"
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass
Wendt-Sonis Co 10th & Collier Sts Hannibal Mo "W-S" (Carbide tipped)
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich "Blue Diamond" "Hercules"
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich

**DRIP PANS—See Pans, Drip**

**DRIVE PINS—See Pins, Drive**

**DRIVE SCREWS—See Screws, Drive**

**DRIVE SHAFTS—See Shafts, Propeller**

## DRIVERS, Bushing

Beard Tool Co L O Andrew & Mill Sts Lancaster Pa
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio
National Machine & Tool Co 4077 Page Ave Jackson Mich
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich

## DRIVERS, Screw (Portable Electric)

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Scrugun"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "Universal" "Hicycle" & "Supercycle"**
Ingersoll-Rand Co 11 Broadway, New York 4 N Y
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Drivers"
Stanley Electric Tools Div of Stanley Works 480 Myrtle St New Britain Conn
Thor Power Tool Co 175 State St Aurora Ill
United States Electrical Co 3620 Llewelyn St Cincinnati 23 Ohio

## DRIVERS, Screw (Portable Pneumatic)

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux"
Aro Equipment Co Bryan Ohio
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP" "Dial-Tork" "Magnamatic" "Microtite"**
**CLECO AIR TOOLS DIV OF REED ROLLER BIT CO 5125 Clinton Drive Houston 1 Tex**
Dixon Automatic Tool Inc 2300 23rd Ave Rockford Ill
Gardner-Denver Co S Front St Quincy Ill
Ingersoll-Rand Co 11 Broadway New York 4 N Y
**Master Power Corp 6225 Cochran Rd Solon 39 Ohio**
Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin Ill "Semspak"
Skil Corp Inc 5033 Elston Ave Chicago 30 Ill "Skil Driver"
**THOR POWER TOOL CO 175 State St Aurora Ill**
United Shoe Machinery Corp 140 Federal St Boston 7 Mass "Powasert"

**DRIVERS, STUD—See Setters, Stud, Nut, Bolt and Lag Screw**

## DRIVES, Engine Fan, Generator, Windshield Wiper, Etc. (Auto)

Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio
**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic" (Electromagnetic for fans)**
**EATON MFG CO Pump Div W Hanover St Marshall Mich "Eaton Visco-Drive" "Eaton Tempatrol" "Eaton Torqatrol" (Fan)**
**MORSE CHAIN CO Ithaca N Y**
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind (Fan)**
**TWIN DISC CLUTCH CO 1328 Racine St Racine Wis "Hydro-Sheave" (Fluid)**

**DRIVES, MACHINE TOOL—See Transmissions, Variable Speed (Industrial)**

**DRIVES, REAMER—See Reamers, Machine**

**DRIVES, REFRIGERATION SYSTEM (Truck and Trailer)—See Parts, Refrigeration Systems (Truck and Trailer)**

## DRIVES, Starter (Auto)

**(For starter drive parts—see Parts, Starting Motor Drive)**

Accurate Parts Inc 1313 S Jay St Kokomo 3 Ind
**ECLIPSE MACHINE DIV Bendix Corp Elmira N Y "Bendix"**
General Armature & Mfg Co Box 370 Lock Haven Pa

## DRIVES, V-Belt

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
Dayton Industrial Products Co 2001 N Janice Ave Melrose Park Ill "Thoro-Trac" (Tandem axle for truck-tractors)
Dick Co R & J Totowa N J "Dickrope"
Dodge Mfg Corp 500 Main St Mishawaka Ind "Dodge Dyna-V"
F A B Mfg Co 1249 67th St Oakland 8 Calif "Fabco" (Tandem axle)
Gates Rubber Co 999 S Broadway Denver 17 Colo (For pusher or trailing axles)
Wood's Sons Co T 13 N Fifth Ave Chambersburg Pa "Sure-Grip" (Also timing belts)

## DRIVES, Variable Speed (Machine Tool)

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Allis Co Louis 527 E Stewart St Milwaukee 7 Wis "Select-A-Spede" "Allispede (Adjustable; "Line-A-Spede" gearmotors)
American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
**CLEVELAND WORM & GEAR DIV Eaton Mfg Co 3300 E 80th St Cleveland 4 Ohio "Cleveland Speed Variator" (Mechanical)**
Dodge Mfg Corp 500 Main St Mishawaka Ind "Taper-Lock"
**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynaspede" "Ajusto-Spede"**
Electro Dynamic Div General Dynamics Corp Bayonne N J
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco" (For presses)
Master Electric Div Reliance Electric & Engrg Co 126 Davis St Dayton 1 Ohio "Speedranger"
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Reliance Electric & Engrg Co 24701 Euclid Ave Cleveland 17 Ohio
Speed Selector Inc P O Box 312 Chagrin Falls Ohio
U S Electrical Motors Inc 200 E Slauson Ave Los Angeles 54 Calif "Varidyne"
Weltronic Co 19500 W 8 Mile Rd Southfield Mich
Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y
Zero-Max Co 1900 Lyndale Ave S Minneapolis 5 Minn

## DRUMS, Brake

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Aluminum fins bonded to cast iron liners)
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa (Combination iron and steel)
Campbell Wyant & Cannon Foundry Co Muskegon Mich "Cannonite" (Sand cast; centrifused)
Crosby Co 183 Pratt St Buffalo 5 N Y (Pressed steel)
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio (Iron)
Erie Malleable Iron Co (Automotive Wheel Div) 609 W 12th St Erie Pa (Cast alloyed iron)
Frank Foundries Corp 2020 Third Ave Moline Ill "Frankite" (Iron)
Gunite Foundries Corp 302 Peoples Ave Rockford Ill (Iron)
Hunt-Spillar Mfg Corp 383 Dorchester Ave South Boston 27 Mass (For buses or trucks)
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Cal "Kaloy" (Iron, for truck trailers)
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich (Composite iron and steel)**
Laher Spring & Electric Car Corp 2615 Magnolia St Oakland 7 Calif
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Centrifuse"
Reynolds Mfg Co 600 N Prospect Ave Springfield 2 Mo "Reyco" (Special alloy iron)
Shuler Axle Co 2901 S Second St Louisville 8 Ky (Special alloy iron)
Webb Wheel Div of American Steel & Pump Corp Lake Francis Dr Siloam Springs Ark
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y

## DRUMS, Steel Shipping

Columbian Steel Tank Co 1409 W 12th St Kansas City 7 Mo
United States Steel Products Div United States Steel Corp 5100 Santa Fe Ave Los Angeles 58 Calif "USS"

## DRYERS, Japanning and Varnish

Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"
Hevi Duty Electric Co 3002 W Burliegh St Milwaukee 1 Wis
Mahon Co R 6565 E 8 Mile Rd Detroit 34 Mich (Japanning)
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Steiner-Ives Co Springfield Rd Union N J (Japanning)
Young Bros Co 1831 Columbus Rd Cleveland 13 Ohio

**DRYERS, METAL PARTS—See Machines, Drying (Metal Parts)**

**DRYING LAMPS—See Lamps, Drying, Baking and Heating**

**DUCK, ENAMELED—See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery, etc.)**

## DUCTING, Auto

Arrowhead Products Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit Mich (Metal plastic and rubber)

**DUPLICATING MACHINES, METAL (DIE-LESS—See Machines, Duplicating, Metal (Die-Less)**

**DYE, PENETRANT INSPECTION—See Compounds, Metal Testing**

## DYNAMOMETERS, Chassis Testing

Clayton Mfg Co 401 N Temple City Blvd El Monte Calif (Hydraulic)
Nankervis Co George L 15300 Fullerton St Detroit 27 Mich

## DYNAMOMETERS, Engine Testing

Clayborne Mfg Co 429 N Main St Monticello Ind
Clayton Mfg Co 401 N Temple City Blvd El Monte Calif (Hydraulic)
**EATON MFG CO Dynamatic Div 3122 14th Ave Kenosha Wis "Dynamatic"**
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" (Electric)
Link Engrg 13840 Elmira Ave Detroit 27 Mich (Electric)
Nankervis Co George L 15300 Fullerton St Detroit 27 Mich
Taylor Dynamometer & Machine Co 6411 River Parkway Milwaukee 13 Wis "Hi-Eff"
Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y

**DYNAMOS, PLATING—See Machines, Plating**

**EAR PROTECTORS, INDUSTRIAL—See Protectors, Ear (Industrial)**

**EJECTORS, WATER, OIL, CARBON & SLUDGE, AUTOMATIC (AIR TANK)—See Valves, Air Tank Drain (Automatic)**

**ELECTRICAL INSULATION, LIQUID—See Insulation, For Electric Parts (Liquid)**

**ELECTRO - MAGNETIC COUPLINGS — See Couplings, Electro-Magnetic**

**ELECTRODE HOLDERS—See Holders, Electrode**

**ELECTRODES, Welding—See Rods, Welding**

**ELECTROPLATING ANODES—See Anodes, Electroplating**

**ELECTROPLATING CHEMICALS — See Chemicals, Electroplating**

**ELECTRO-SPARK MACHINES — See Machines, Electro-Spark**

## ELEVATORS, Automobile and Parts

Jeffrey Mfg Co 846 N 4th St Columbus 16 Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill

## ELEVATORS, Industrial (Portable)

Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Bonded Scale & Machine Co 83 Bellevue Ave Columbus Ohio (Hydraulic)
Bosworth Mfg Co 34250 Mills Rd Avon Ohio
Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio "Beltevetor"
Colson Corp Elyria Ohio
Economy Engineering Co 4511 W Lake St Chicago 24 Ill "Economy Shoplifter"
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Hydraulic)
Grand Specialties Co 3113 W Grand Ave Chicago 22 Ill
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "L-S" (Hand and electric)
Lippmann Engrg Works Inc 4603 W Mitchell St Milwaukee Wis "LEW"
Prab Conveyor Inc 30121 Groesbeck Hwy Roseville (Detroit) Mich (Magnetic)
Raymond Corp 151 Madison St Greene N Y
Revolvator Co 2026 86th St North Bergen N J (Hand, electric and oil hydraulic)
West Bend Equipment Corp 216 S Water St West Bend Wis "Welt-Bilt" (Hand and electric)

## ELIMINATORS, Mist

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

**EMBLEMS—See Monograms, Initials and Emblems, Ornamental**

**EMBOSSING DIES—See Dies, Embossing**

**EMERY CLOTH—See Cloth, Abrasive**

**EMERY PAPER—See Paper, Abrasive**

**EMERY WHEELS—See Wheels, Grinding**

## ENAMELS, Auto, Truck and Bus

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich "Fleet X-75"
Akron Paint & Varnish Co 1390 Firestone Parkway Akron 1 Ohio "Bexco"
American Lacquer Solvents Co Perkiomen Junction Phoenixville Pa "Quix"
American Paint Co 902 Larrabee St Chicago 10 Ill "Artspar" "Dalax" (For commercial vehicles)
American Varnish Co 1138 N North Branch St Chicago 22 Ill "American" "Artspar"
Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Synite"
Automotive Finishes Inc 8747 Brandt St Dearborn Mich "Fleet-Lux"
Boydeli Bros Co 1121 E McNichols Rd Detroit 3 Mich
Bruning Bros Inc 4209 E Chase St Baltimore 5 Md
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich "Ditzco"
du Pont de Nemours & Co E I Fabrics & Finishes Dept Finishes Div Wilmington 98 Del "Dulux" "Pyralux"
Forbes Finishes Div Pittsburgh Plate Glass Co 3800 W 143rd St Cleveland 11 Ohio "Duracron" "Duracryl" "Plastox" "Synco" "Raybake"
Frost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frostex"
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Harrison Paint & Varnish Co Midland Industrial Div 1329 Harrison Ave N W Canton 1 Ohio "HySpar" (For trucks road machinery and highway equipment)
Horn Co A Products Finishes Div 10th St & 44th Ave Long Island City 1 N Y
Illinois Bronze Powder Co 2015 S Clark St Chicago Ill "Illbronze"
Interstate Enamel & Varnish Co 323 W 15th St Indianapolis Ind "Realcoat"
Krylon Inc Ford & Washington Sts Norristown Pa
McDougall-Butler Co 2929 Main St Buffalo 14 N Y "Hardcote"
Martin-Senour Co 2500 S Senour Ave Chicago 8 Ill "Synthol"
Nason Products Div W P Fuller & Co 450 E Grand Ave South San Francisco 3 Calif "Glyko"
Pittsburgh Plate Glass Co Paint Div 1 Gateway Center Pittsburgh 22 Pa "Lavax"
Plasti-Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohio
Rinshed-Mason Co 5935 Milford St Detroit 10 Mich "Per-Max"
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio "Kem" "Exlon"
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "Stantox"
Steelcote Mfg Co 3418 Gratiot Ave St Louis 3 Mo
Vita-Var Corp 46 Albert Ave Newark N J "Vita-Lux"
Wilbur & Williams Co 650 Pleasant St Norwood Mass "Totrust"
Zac-Lac Paint & Lacquer Corp 350 Simpson St NW Atlanta 13 Ga

**ENGINE CONTROL SWITCHES—See Switches, Engine Control (Machinery)**

**ENGINE COOLANT FILTERS—See Filters, Engine Coolant**

**ENGINE ENCLOSURES, INDUSTRIAL—See Housings, Engine and Generator**

**ENGINE HOUR METERS—See Meters, Engine Hour (Truck)**

**ENGINE JACKS—See Jacks, Engine**

**ENGINE OILS—See Oils, Engine**

**ENGINE STARTERS, REMOTE CONTROL (Truck)—See Starters, Engine (Truck) (Remote Control)**

**ENGINE SUPERCHARGER INTERCOOLERS—See Intercoolers, Engine Supercharger**

**ENGINE TESTING DYNAMOMETERS—See Dynamometers, Engine Testing**

**ENGINE TESTING INSTRUMENTS — See Analyzers, Engine and Electrical Equipment**

## ENGINES, Aircraft

Aircooled Motors Inc Liverpool Rd Syracuse 8 N Y "Franklin"
Allison Div General Motors Corp P O Box 894 Indianapolis 6 Ind
Continental Motors Corp Aircraft Engine Div Muskegon 82 Mich "Red Seal"
Curtiss-Wright Corp Wright Aeronautical Div Main & Passaic Sts Wood-Ridge N J
General Electric Co Flight Propulsion Div Cincinnati 15 Ohio
Lycoming Div Avco Corp 550 S Main St Stratford Conn
Monocoupe Aircraft & Engine Corp Melbourne Fla "Lambert"
Pratt & Whitney Aircraft Div of United Aircraft Corp 400 Main St East Hartford 8 Conn
Westinghouse Electric Corp Aviation Gas Turbine Div P O Box 288 Kansas City Mo

**ENGINES, AUTOMOBILE (DIESEL) — See Engines, Diesel**

## ENGINES, Auto, Truck and Bus (Gasoline)

**(Covering manufacturers who build engines primarily for re-sale)**

Aircooled Motors Inc Liverpool Rd Syracuse 8 N Y "Franklin" (Truck)
Brennan Motor Mfg Co 500 E Water St Syracuse N Y (Truck)
Chevrolet Motor Div General Motors Corp General Motors Bldg Detroit 2 Mich
**CONTINENTAL MOTORS CORP 205 Market St Muskegon 82 Mich "Red Seal"**
Flair Aviation Co 2300 W Flair Dr El Monte Calif
Ford Motor Co Engine & Foundry Div 3001 Miller Rd Dearborn Mich
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich (Truck and bus)
Hercules Motors Corp 101 11th St S E Canton 2 Ohio "Hall-Scott" "Hercules" (Truck, tractor and bus)
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill (Truck tractor and bus)
Minneapolis-Moline Co Hopkins Minn "Moline" (Gas and LP-Gas for tractors)
Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich (Truck and bus)
Studebaker-Packard Corp 635 S Main St South Bend 27 Ind
**WAUKESHA MOTOR CO W St Paul Ave Waukesha Wis "Waukesha" "Rol Line" (Truck and bus)**
White Motor Co 842 E 79th St Cleveland 1 Ohio (Truck and bus)

## ENGINES, Butane and Propane (Bus and Truck)

Allis-Chalmers Mfg Co Milwaukee 1 Wis (Truck)
**CONTINENTAL MOTORS CORP 205 Market St Muskegon 82 Mich "Red Seal"**
Hercules Motors Corp 101 11th St S E Canton 2 Ohio "Hall-Scott" "Hercules"
Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich
**WAUKESHA MOTOR CO W St Paul Ave Waukesha Wis**
Wisconsin Motor Corp 1910 S 53rd St Milwaukee 46 Wis (For refrigerated trucks)

## ENGINES, Diesel

**(For use in cars, trucks, buses, tractors, aircraft and motorboats)**

**ALLIS-CHALMERS MFG CO Milwaukee 1 Wis (Bus truck and marine)**
American Marc Inc 1601 W Florence Ave Inglewood Calif (Small)
Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa (Marine)
Burmeister & Wain American Corp Lathrop Engine Div Holmes St Mystic Conn "B & W Lathrop" (Marine)
Caterpillar Tractor Co Peoria Ill (Marine)
Cerlist Diesel Inc 1709 N Church St Burlington N C (Automotive and marine)
**CHRYSLER CORP Marine & Industrial Engine Div 12200 E Jefferson Ave Detroit 31 Mich "Perkins" (Marine)**
**CONTINENTAL MOTORS CORP 205 Market St Muskegon 82 Mich "Red Seal" (Truck tractor bus and marine)**
Cummins Engine Co 1000 Fifth St Columbus Ind (Truck bus tractor and marine)
Curtiss-Wright Corp Utica Div 50500 Mound Rd Utica Mich "Mercedes-Benz" (Truck and marine)
Detroit Diesel Engine Div General Motors Corp 13400 W Outer Drive Detroit 28 Mich (Truck and bus)
Enterprise Engine & Machinery Co 18th & Florida Sts San Francisco 10 Calif (Marine)
Fairbanks, Morse & Co Lawton Ave Beloit Wis (Marine)
Ford Motor Co Engine & Foundry Div 3001 Miller Rd Dearborn Mich
Gray Marine Motor Corp 710 Canton Ave Detroit 7 Mich "Gray" & "Graymarine" (Marine)
Hercules Motor Corp 101 11th St S E Canton 2 Ohio "Hall-Scott" "Hercules" (Truck, tractor and bus)
International Harvester Co., Harvester Bldg 180 N Michigan Ave Chicago 1 Ill (Tractor)
Jones Machine Tool Works Inc Montgomery Ave King of Prussia Pa
Kahlenberg Bros Co 1202 Monroe St Two Rivers Wis (Marine)
Mack Trucks Inc 1000 S Second St Plainfield N J (Truck and bus)
Minneapolis-Moline Co Hopkins Minn "Moline" (Tractor; also small)
Murphy Diesel Co 5317 W Burnham St Milwaukee 19 Wis (Marine)
Nordberg Mfg Co 3078 S Chase Ave Milwaukee 1 Wis (Marine)
P & H Diesel Engine Div Harnischfeger Corp 500 S Main St Crystal Lake Ill "P & H" (Automotive and marine)
Red Wing Marine Corp 1000 Levee St Red Wing Minn (Marine)
Sheppard Co R H 101 Philadelphia St Hanover Pa (Marine)
Union Diesel Engine Co 2121 Diesel St Oakland 6 Calif

## ENGINES, Diesel—continued

**WAUKESHA MOTOR CO W St Paul Ave Waukesha Wis (Truck and bus)**

White Diesel Engine Div White Motor Co 1401 Sheridan Ave Springfield Ohio

**ENGINES, GASOLINE POWER UNITS—See Power Units**

## ENGINES, Industrial

**ALLIS-CHALMERS MFG CO Milwaukee 1 Wis (Gasoline, Diesel and LP-G)**

Brennan Motor Mfg Co 500 E Water St Syracuse 2 N Y (Gasoline)
Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis (Small)
Caterpillar Tractor Co Peoria Ill (Diesel)
Cerlist Diesel Inc 1709 N Church St Burlington N C (Diesel)

**CHICAGO PNEUMATIC TOOL CO Howard St Franklin Pa (Diesel)**

**CHRYSLER CORP Marine & Industrial Engine Div 1220 E Jefferson Ave Detroit 31 Mich "Chrysler" (Gasoline; and LP-Gas; "Perkins" Diesel)**

Climax Engine Mfg Co 1812 S Fourth St Clinton Iowa (Gasoline)

**CONTINENTAL MOTORS CORP 205 Market St Muskegon 82 Mich "Red Seal" (Gasoline butane natural gas and Diesel)**

Crofton Marine Engine Co 888 Gull St San Diego 1 Calif
Cummins Engine Co 1000 Fifth St Columbus Ind (Diesel)
Curtiss-Wright Corp Utica Div 50500 Mound Rd Utica Mich "Mercedes-Benz" (Diesel)
Deere & Co 1325 Third Ave Moline Ill "John Deere"
Detroit Diesel Engine Div General Motors Corp 13400 W Outer Dr Detroit 28 Mich (Diesel)
Fairbanks, Morse & Co Lawton Ave Beloit Wis (Diesel)

**FORD DIV FORD MOTOR CO Industrial Engine Div Box 598 Dearborn Mich (Gasoline & Diesel)**

Hercules Motors Corp 101 11th St E Canton 2 Ohio "Hall-Scott" "Hercules" (Gasoline & Diesel)
International Harvester Co Harvester Bldg 180 N Michigan Ave (Gasoline & Diesel)
Minneapolis-Moline Co Hopkins Minn "Moline" (Gasoline & Diesel)
Murphy Diesel Co 5317 W Burnham St Milwaukee 19 Wis (Diesel)
P & H Diesel Engine Div Harnischfeger Corp 500 S Main St Crystal Lake Ill (Diesel)
Sheppard Co R H 101 Philadelphia St Hanover Pa (Diesel)
Sterling Engine Co P O Box 307 Menominee Mich (Gasoline & Diesel)

**WAUKESHA MOTOR CO W St Paul Ave Waukesha Wis "RoiLine" (Diesel, Gasoline & LP-G)**

Willys Motors Inc 940 Cove Blvd Toledo 1 Ohio (Gasoline)
Wisconsin Motor Corp 1910 S 53rd St Milwaukee 46 Wis (Gasoline)
Witte Engine Works Oil Well Supply Div U S Steel Corp 1600 Oakland St Kansas City 26 Mo (Gasoline and Diesel)

## ENGINES, Small (Gasoline)

Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis
Clinton Engines Corp Maple & Clark Sts Maquoketa Ia
Continental Motors Corp 205 Market St Muskegon 82 Mich "Red Seal"
Cushman Motor Works, Inc., 920 N 21st St Lincoln Neb
Fairbanks Morse & Co Lawton Ave Beloit Wis

**KOHLER CO Kohler Wis (Air cooled)**

Lauson Engine Div Tecumseh Products Co New Holstein Wis
McCulloch Corp 6101 W Century Blvd Los Angeles 45 Calif
Minneapolis-Moline Co Hopkins Minn "Moline"
Onan & Sons Inc D W University Ave S E at 25th St Minneapolis 14 Minn
Power Products Div Tecumseh Products Co Grafton Wis
Universal Motor Co 1552 Harrison St Oshkosh Wis
West Bend Aluminum Co West Bend Wis
Wisconsin Motor Corp 1910 S 53rd St Milwaukee 46 Wis

**EQUIPMENT, DIESEL ENGINE — See Injection Systems, Diesel & Gasoline Engine; also Filters, Fuel (For Diesel Engines); also Motors, Starting (Electric)**

**ETCHING MACHINES — See Tools, Electric Marking**

## EXCHANGERS, Heat

Adams Co R P 264 E Park Drive Buffalo 17 N Y
Bell & Gosset Co 8200 Austin Ave Morton Grove Ill "B & G"
Bethlehem Steel Co Bethlehem Pa
General Radiator Co PO Box 658 Mt Vernon Ill
Hanson-Van Winkle-Munning Co Matawan N J
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit 12 Mich
Modine Mfg Co 1500 DeKoven Ave Racine Wis
Perfex Corp 500 W Oklahoma Ave Milwaukee 7 Wis
Union Diesel Engine Co 2121 Diesel St Oakland 6 Calif
Yates-American Machine Co Beloit Wis

**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

**EXHAUST PIPES—See Pipes, Tail and Exhaust**

**EXHAUST PURIFIERS, FOR INTERNAL COMBUSTION ENGINES — See Purifiers, Exhaust (For Internal Combustion Engines)**

**EXPANDING MACHINES, HYDRAULIC—See Machines, Expanding (Hydraulic)**

**EXPANSION PLUGS—See Plugs, Core Hole and Expansion**

## EXTRACTORS, Bolt and Screw

C & G Wheel Puller Co Scio N Y (Stud)
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (Screw)
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio "Ezy-Out"
Cornwell Quality Tools Co Mogadore Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "Little Giant"
Hanson Co Henry L 25 Union St Worcester 8 Mass "Ace"
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"
Keystone Reamer & Tool Co Millersburg Pa
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin" (Screw)
National Machine & Tool Co 4077 Page Ave Jackson Mich (Stud)
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
P & C Too. Co Box 5926 Milwaukie Ore
Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif
Quality Tools Corp Railroad St New Wilmington Pa "Oldforge" (Screw)
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
Spray Products Corp 725 Kenilworth Ave Merchantville 10 N J
Titan Tool Co E Main St Fairview Pa "Titan-Kirkland" (Combination stud driver and remover)
Vermont Tap & Die Corp Main & Grove Sts Lyndonville Vt (Screw)
Whitman & Barnes Div of United Greenfield Corp 40055 Plymouth Rd Plymouth Mich (Screw)
Wilde Tool Co Hiawatha Kans (Stud)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y (Stud)
Wright Tool & Forge Co 42 E State St Barberton Ohio (Stud)
Zim Mfg Co 2850 W Fulton St Chicago 12 Ill (Stud)

**EXTRUDING MACHINES — See Machines, Extruding**

## EXTRUSIONS, Aluminum

Adams & Westlake Co 1019 N Michigan St Elkhart Ind "Adlake"
Aluminum Extrusions Inc 815 Shepherd St Charlotte Mich
Anaconda Aluminum Co P O Box 1654 Louisville Ky
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn

**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**

Doehler-Jarvis Div of National Lead Co Smead & Prospect Aves Toledo 1 Ohio
Harvey Aluminum 19200 S Western Ave Torrance Calif
Kaiser Aluminum & Chemical Corp 300 Lakeside Dr Oaklana 12 Calif
Olin Mathieson Chemical Corp Metals Div 400 Park Ave N Y 22 N Y
Reynolds Metals Co 6601 Broad St Richmond 19 Va
Rockwell-Standard Corp Stamping Div 1013 Oswego St Utica 1 N Y
Thompson Products Light Metals Div Thompson-Ramo-Wooldridge Inc 2269 Ashland Rd Cleveland 3 Ohio

## EXTRUSIONS, Plastic

**GEAUGA INDUSTRIES CO Old State Rd Middlefield Ohio**

## EXTRUSIONS, Rubber

Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio

**GEAUGA INDUSTRIES CO Old State Rd Middlefield Ohio**

Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill
Rockwell-Standard Corp Stamping Div 1013 Oswego St Utica 1 N Y
Stalwart Rubber Co 222 Northfield Rd Bedford Ohio

## EXTRUSIONS, Steel

Babcock & Wilcox Co Tubular Products Div Beaver Falls Pa
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Rockwell-Standard Corp Stamping Div 1013 Oswego St Utica 1 N Y

**EYE BOLTS—See Bolts, Eye**

**EYE PROTECTORS—See Glasses, Safety (Eye); also Goggles, Mechanics' and Welders'**

## FABRIC, Backing (For Upholstery)

Wellington Sears Co 111 W 40th St N Y 18 N Y "Lantuck" (Non-woven; "Knit Kote" knit; cotton and synthetic)

## FABRIC, Coated Cloth (For Parts)

**(Including carburetors, diaphragms, gaskets, valve seats, etc)**

Acme Backing Corp Canal & Ludlow Sts Stamford Conn "Acmetex"
Blossom Mfg Co 2337 McDonald Ave Brooklyn N Y (For fuel pump diaphragms)
Columbus Coated Fabrics Corp Seventh & Grant Aves Columbus 16 Ohio "Col-O-Tex" "Plastovin"
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohrlastic" (Silicone rubber coated)

**DU PONT de NEMOURS & CO E I Fabrics & Finishes Dept Fabrics Div "Fairprene" (Synthetic rubber coated for diaphragms gaskets washers packing and seam sealants; "Armalon" TFE-fluorocarbon resin coated glass fabric for gaskets diaphragms bearing seals etc)**

Garlock Inc 402 Main St Palmyra N Y
Haartz-Mason Inc Mechanical Products Inc 270 Pleasant St Watertown 72 Mass (Synthetic rubber coated for fuel pump and oil pressure switch diaphragms and gaskets)
Irvington Varnish & Insulator Div Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N Y
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J "Bunalon" (For fuel pump diaphragms)

**REEVES BROS INC Vulcan Rubber Products Div 1071 Ave of The Americas N Y 18 N Y "Reevecote"**

United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## FABRIC, Coated Cloth (For Seat Covers, Tops, Upholstery, Etc.)

Athol Mfg Co 71 Chestnut Hill Ave Athol Mass "Terek" "Terson" (For seat covers and upholstery)
Blossom Mfg Co 2337 McDonald Ave Brooklyn N Y (For curtains)
Brockton Stay Co 24 Essex St Haverhill Mass (For convertible tops)
Burlington Mills Inc Burlington Wis "Bur-Tex" (Plastic coated, for kick plates, dash seals floor coverings head lining trunk lining etc)
Columbia Mills Inc Syracuse 1 N Y "Tan-O-Lite" (For seat covers and upholstery)
Columbus Coated Fabrics Corp Seventh & Grant Aves Columbus 16 Ohio "Col-O-Tex" (For upholstery and trim)
Duncan Co W H 1186 Union St Brooklyn 25 N Y "Dunotex" (Trunk lining etc)
du Pont de Nemours & Co E I Fabrics & Finishes Dept Fabrics Div Wilmington 98 Del ("Fabrilite" vinyl coated for seat covers upholstery trim bindings etc)

Federal Industries Div of Textron Industries Inc 681 Main St Belleville 9 N J (Vinyl pyroxylin and plastic coated; sole distributors R G Olso Associates 527 New Centre Bldg Detroit Mich)
Goodall-Vinyl Fabrics Inc Reading Mass "Redo" (Upholstery)
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio "Koroseal"
Haartz Auto Fabric Co 3 Bridge St Newton 58 Mass "Jonarts Cleaneasy" "Jonarts Stayfast" "Jonarts Haartex" (For tops and decking)
Haartz-Mason Inc Mechanical Products Div 270 Pleasant St Watertown 72 Mass (For truck tarpaulins, engine covers, etc)
Hettrick Mfg Co Summit & Magnolia Sts Toledo Ohio
Interchemical Corp Cotan Div 34 Oliver St Newark 5 N J "Coair" "Cohyde" (For seat covers and upholstery "Cotan Duplex" "Cotan Monoplex" for tops)
Jamestown Finishes Inc 125 Blackstone Ave Jamestown N Y "Tavalon" (For interior trim)
Joanna-Western Mills Co 22nd & Jefferson Sts Chicago Ill (Plastic coated for upholstery trim and seat cover)
Landers Corp Buckingham & Blucher Sts Toledo 1 Ohio ("Karavan" for convertible tops; "Versilan" for upholstery and auto trim; "Resilan" for seat covering)
Masland Duraleather Co Amber & Wallace Sts Philadelphia 34 Pa (For interior trim)
Niagara Fabrics Mfg Co 161 Grand St New York 13 N Y (Top and decking)
Reeve Bros Inc 1071 Ave of The Americas N Y 18 N Y "Coverlight" (Tarpaulins etc)
Textileather Div of General Tire & Rubber Co 607 Madison Ave Toledo 3 Ohio "Textileather" (Pyroxylin coated for upholstery and trim; "Tolex" & "Nygen Tolex" vinyl coated for upholstery and trim; "Elastolex" vinyl coated knit; "Duratop" for tops)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y "U S Naugahyde"
Weymouth Art Leather Co 180 Pearl St South Braintree 85 Mass "Weymolite" "Weymosol" (For upholstery and trim)

## FABRIC, Fibre (Seat Cover)

American Cyanamid Co Plastics & Resins Div 30 Rockefeller Plaza N Y 20 N Y "Melostrength"
Chicopee Mills Inc Lumite Div 47 Worth St N Y 13 N Y "Luxel Fibre"
Columbus Fiber Mills Co 45th St & River Rd Columbus Ga
Twitchell Inc E W Third & Somerset Sts Philadelphia 33 Pa "Textilene Sunsure" (Vinyl coated)

## FABRIC, Plastic (For Tops, Upholstery and Seat Covers)

Acme Backing Co Canal & Ludlow Sts Stamford Conn "Acmetop"
Blossom Mfg Co 2337 McDonald Ave Brooklyn N Y (Seat covers)
Bolta Product Div General Tire & Rubber Co 70 Garden St Lawrence Mass "Boltaflex" (For upholstery; also quilted for seat covers and trim)
Chicopee Mills Inc Lumite Div 47 Worth St N Y 13 N Y "Lumite" (Upholstery and seat covers)
Columbus Coated Fabrics Corp 7th & Grant Aves Columbus 16 Ohio "Colovin"
Columbus Fiber Mills Co 45th St & River Rd Columbus Ga (Seat cover)
Firestone Plastics Co P O Box 690 Pottstown Pa "Velon"
Masland Duraleather Co Amber & Willard Sts Philadelphia 34 Pa "Masland Duran" (Upholstery)
Toscony Inc 295 Fifth Ave N Y 16 N Y "Filmtex"
Union Carbide Plastics Co Div of Union Carbide Corp 30 E 42nd St N Y 17 N Y "Krene" (Clear plastic)
United States Plywood Corp Weldwood Bldg 55 W 44th St N Y 36 N Y "Kalistron" "Kalitex" (Vinyl)

## FABRIC, Seat Cover

**(See also Fabric Coated Cloth; Fabric Plastic [For Tops, Upholstery and Seat Covers]; also Fabric Upholstery)**

Burg Co A S 116 South St Boston Mass (Rayon and nylon; also rayon and cotton trim)
Carlinn Fabrics Corp 81 Essex St Boston 11 Mass (Cotton-rayon and synthetic)
Chicopee Mills Inc Lumite Div 47 Worth St N Y 13 N Y "Chixon" (Rayon)
Columbus Coated Fabrics Corp 7th & Grant Aves Columbus 16 Ohio "Colovin" (Vinyl plastic)
General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio "Genflex"
Goodall-Vinyl Fabrics Inc Reading Mass "Goodallite"
Lushan Co 144 Moody St Waltham 54 Mass "Elasticon" "Fabricon" "Plasticon"
Oakland Textile Co 379 Fourth Ave New York 16 N Y (Nylon)
Spradlings Inc 1112 S Grand Blvd St Louis Mo (Paper fibre, cotton and plastic )
Textileather Div of General Tire & Rubber Co 607 Madison Ave Toledo 3 Ohio "Elastolex" (Plastic)

## FABRIC, Synthetic (For Parts)

**(For carburetors, diaphragms, gaskets, valve seats, etc)**

Chicopee Mills Inc Lumite Div 47 Worth St N Y 13 N Y "Lumite"
Columbus Coated Fabrics Corp 7th & Grant Aves Columbus 16 Ohio "Col-O-Tex"
Columbus Fiber Mills Co 45th St & River Rd Columbus Ga (Filters)
Kem Mfg 20-21 Wagaraw Rd Fair Lawn N J (Fuel pump diaphragms)
Wellington Sears Co 111 W 40th St N Y 18 N Y "Shawmut" (Filters)

## FABRIC, Upholstery (Woven Cloth)

Bachmann Uxbridge Worsted Co Div of Amerace Corp Uxbridge Mass (Nylon and rayon; sole distributors John W. Gillette & Co Puritan Center Bldg 16115 Meyers Rd Detroit 35 Mich)
Blumenthal & Co Sidney 1 Park Ave N Y 16 N Y
Chatham Mfg Co Elkin N C (Broadcloth nylon and whipcord sole distributors Getsinger-Fox 1417 Fisher Bldg Detroit Mich)
Chicopee Mills Inc Lumite Div 47 Worth St New York 13 N Y "Chic-Spun" (Rayon and nylon)
Collins & Aikman Corp 210 Madison Ave New York N Y
Ellis Mills Inc A D Monson Mass "Emberton" (Bedford cord and broadcloth)
Stevens & Co J P 24126 Woodward Ave Pleasant Ridge N J

**FABRIC CUTTING MACHINES — See Machines, Fabric Cutting**

**FABRIC DRILLING MACHINES — See Machines, Fabric Cutting**

**FACE GRINDING MACHINES — See Machines, Grinding (Face)**

**FACE PLATE JAWS—See Jaws, Face Plate (Portable)**

## FACINGS, Clutch

American Brakeblok Div American Brake Shoe Co 900 W Maple Rd Birmingham Mich (Asbestos)
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa (Cork and rubber fibre)
Atlas Asbestos Co 469 Walnut St North Wales Pa (Asbestos)
Delco Moraine Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio (Metallic)
Gatke Corp 228 N LaSalle St Chicago 1 Ill (Asbestos)
Grey-Rock Div of Raybestos-Manhattan Inc Manheim Pa (Asbestos and semi-metallic)
Johns-Manville 22 E 40th St New York 16 N Y "J-M" & "S W" (Asbestos)
Marshall-Eclipse Div of Bendix Corp Box 538 Troy N Y "Cerametalix"
National Brake Block Co 37-17 57th St Woodside 77 N Y (Asbestos)
Porter Co H K Amco Works E Sabine St Huntington Ind "Amco"
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid" (Asbestos)
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn (Asbestos and metallic)
**RAYBESTOS - MANHATTAN INC Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M"**
Russell Mfg Co E Main St Middletown Conn "Rusco" (Asbestos)
Scandura Inc 112 Keswick Ave Charlotte 1 N C "Scandinavia" (Asbestos)
Universal Friction Materials Div of Gairing Tool Co 1700 United Artists Bldg Detroit 26 Mich
Wellman Co S K 200 Egbert Rd Bedford Ohio "Velvetouch Feramic" (Metallic)
World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

**FAN BELTS—See Belts, Auto (Fan, Water Pump, Generator, etc.)**

**FAN DRIVES—See Drives, Engine Fan, Generator, Windshield Wiper, etc. (Auto)**

## FANS, Defrosting and Ventilating, Electric (Auto)

Casco Products Corp 512 Hancock Ave Bridgeport 2 Conn "Casco" "Perfection"
Chicago Mfg Co 411 N Trumbull Ave Chicago Ill (Defrosting for buses and trucks)
Evans Products Co 13101 Eckles Rd Plymouth Mich (For trucks)
HaDees Heater Products Huppower Div Hupp Corp 7450 Melville Ave Detroit 17 Mich
Lydon-Bricher Mfg Co 2500 University Ave St Paul 14 Minn "McKay" (For buses and trucks)
Roto-Beam 1755 N Keeler St Chicago 39 Ill

## FANS, Exhaust Drying

**(For use in connection with drying room equipment)**

American Standard Industrial Div Detroit 32 Mich
Binks Mfg Co 3120 Carroll Ave Chicago 12 Ill
Buffalo Forge Co 490 Broadway Buffalo 4 N Y
Champion Blower & Forge Co Harrisburg Ave & Charlotte St Lancaster Pa
Clarage Fan Co North & Porter Sts Kalamazoo Mich
DeVilbiss Co 300 Phillips Ave Toledo 1 O
Emerson Electric Mfg Co 8100 Florissant Ave Detroit 21 Mich
Ilg Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 Ill
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Axivane"
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
Spray Engineering Co 100 Cambridge St Burlington Mass "Spraco"
Standard Electric Mfg Co Haddon Ave West Berlin N J
Westinghouse Electric Corp Sturtevant Div 15 Damon St Hyde Park Boston 36 Mass

## FANS, Radiator

**BROOKSIDE CORP McCordsville Ind**
Eaton Mfg Co 739 E 40th St Cleveland 10 Ohio
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everkool"
Hayes Industries Inc Wildwood & Fern Aves Jackson Mich "Autofan"
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog" (For Chevrolet cars)
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind "Hy Duty"; "Thermatic" (Thermostatically controlled; "Thermo Modulated")**
Service Products Corp 201 S Rural St Indianapolis 1 Ind

## FASTENERS, Belt

Clipper Belt Lacer Co 974 Front Ave N W Grand Rapids 2 Mich
Flexible Steel Lacing Co 4607 Lexington St Chicago 44 Ill "Alligator" "Flexco" "Flex V" "Turtle"
Greene Tweed & Co North Wales Pa "Moran's"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper"
Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del
Stevens Co A T 118 E 28th St New York 16 N Y
Western Rawhide & Belting Co 131 E Washington St Milwaukee Wis "Superior"

## FASTENERS, Hood

Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich
Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio

## FASTENERS, Molding and Trim

California Industrial Products Inc 5765 Meadow Rd South Gate Calif
**CARR FASTENER CO 31 Ames St Cambridge 42 Mass "Dot"**
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill (Molding)
Gagnier Fibre Products Co 10151 Capitol Ave Oak Park Detroit 37 Mich "Trimclip"
**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa (Molding)**
Monadnock Mills 1977 First Ave San Leandro Calif "Airloc"

## FASTENERS, Molding and Trim—continued

National Autocraft Mfg Co P O Box 6907 Orlando Fla "Anchor" (Body molding clip)

**PALNUT CO 60-A Glen Rd Mountainside N J "Palnut"**

Production Die & Stamping Co 1034 Garfield Ave Detroit 7 Mich (Molding clips)

Robin Products Co 27027 Groesbeck Hwy Warren Mich

Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio

**SHAKEPROOF Div of Illinois Tool Works St Charles Rd Elgin Ill**

United-Carr Fastener Corp 31 Ames St Cambridge 42 Mass (Molding)

## FASTENERS, Sheet Metal

(For use with or without screws)

California Industrial Products Inc 5765 Meadow Rd South Gate Calif

**CARR FASTENER CO 31 Ames St Cambridge 42 Mass "Dot TCF"**

Champ-Items Inc 6191 Maple Ave St Louis 14 Mo

Dzus Fastener Corp 125 Union St West Islip N Y

General Tire & Rubber Co Industrial Products Div Vibrex Dept Wabash Ind "General Vibrex"

**HASSALL INC JOHN P O Box 2194 Westbury L I N Y**

**HUCK MFG CO 2480 Bellevue Ave Detroit 7 Mich "Daisy" "Huck"**

Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio

Monadnock Mills 1977 First Ave San Leandro Calif "Airloc"

Monogram Mfg Div Monogram Precision Industries Inc 8557 Higuera St Culver City Calif "Kleklo"

**PALNUT CO 60-A Glen Rd Mountainside N J "Pushnuts"**

Prestole Corp 1351 Miami St Toledo 5 Ohio

Rosan Inc 2901 W Coast Highway Newport Beach Calif "Rosan Press-Nut"

**SHAKEPROOF Div of Illinois Tool Works St Charles Rd Elgin Ill**

Simmons Fastener Corp 1749 N Broadway Albany N Y "Dual-Lock" "Link-Lock" "Quick Lock" "Roto Lock" "Spring Lock" "Hinge - Lock" "Hook - Lock" "Clamp-Lock"

South Chester Corp Southco Div 228 Industrial Highway Lester Pa "Southco"

Standard Pressed Steel Co P O Box 395 Jenkintown Pa "Nutt-Shell"

**TINNERMAN PRODUCTS INC 8700 Brookpark Rd Cleveland Ohio "Speed Nuts" "Speed Clips"**

Vol-Shan Mfg Co 8463 Higuera St Culver City Calif

Waldes Kohinoor Inc 47-16 Austel Place Long Island City 1 N Y "P F L" "Q A F"

## FASTENERS, Slide

Automotive Spring Inc 2627 Magnolia Ave Detroit 8 Mich

Conmar Products Corp 140 Thomas St Newark 1 N J "Conmar" "Conmatic"

Talon Inc 826 Arch St Meadville Pa "Talon" "Falcon" "Plastic-Zip" (Plastic)

Waldes Kohinoor Inc 47-16 Austel Pl Long Island City 1 N Y

## FASTENERS, Snap

(For fastening metal trim, upholstery, moldings, etc.)

Carr Fastener Co 31 Ames St Cambridge 42 Mass

Cuyahoga Spring Co 10252 Berea Rd Cleveland 2 Ohio

Defiance Button Machine Co 43-47 W 24th St New York 10 N Y

Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn "Acme" "Gripper" "Permex" "Trilok"

**FASTENERS, STORAGE BATTERY — See Clamps, Battery Hold Down**

## FASTENERS, Upholstery and Seat Cover

Atlas Tack Corp 1079 Pleasant St Fairhaven Mass (Hog rings)

Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky

Handy Button Machine Co 2255 S Rockwell St Chicago 8 Ill (Hog rings)

Niagara Fabric Mfg Co 161 Grand St N Y 13 N Y (Seat cover pins and hog rings)

Republic Fastener Products Corp 216 Midland Ave Saddle Brook N J "Squeeze Klip" (Hog rings; "Republic" hog rings and pins)

Western Wire Products Co 1415 S 18th St St Louis Mo "WW" (Hog rings)

## FEEDERS, Machine Tool

Beckett-Harcum Co 985 W Locust St Wilmington Ohio (Drill press)

Bellows-Valvair Div of International Basic Economy Corp 222 W Market St Akron 9 Ohio

Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif "M A F"

Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill "Hydra-Lite" (For screw machines)

Cooper Weymouth Inc 600 Honeyspot Rd Stratford Conn (For presses)

Dexter Co Div of Miehle-Goss-Dexter Inc 2011 Hastings St Chicago 8 Ill (Automatic for sheet metal wood plastic paper board etc)

Die & Automation Inc 5353 Dixie Highway Hamilton Ohio

Dixon Automatic Tool Inc 2300 23rd Ave Rockford Ill

Federal Machine & Welder Co 1745 Overland Ave Warren Ohio (For presses)

Federal Press Co 511 E Division St Elkhart Ind (Automatic for punch presses)

Ferguson Machine Corp 7818 Maplewood Industries Ct St Louis 17 Mo "Bolstermatic" (For presses)

Haberstump-Harris Co 10463 Northlawn Ave Detroit 4 Mich "Hopperal"

Lipe-Rollway Corp 806 Emerson Ave Syracuse 1 N Y (For bar automatic machines)

**LITTELL MACHINE CO F J 4101 N Ravenswood Ave Chicago 13 Ill (For punch presses)**

Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill (Semi-automatic for presses)

Oilgear Co 1560 W Pierce St Milwaukee 4 Wis (Hydraulic)

Precise Products Corp 3715 Blue River Rd Racine Wis (Milling machines)

Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio (Presses)

Special Engrg Service Inc 7630 Wyoming Ave Dearborn Mich "Ses-Matic" (For punch presses)

Technical Design & Development Co 465 Naugatuck Ave Milford (Devon) Conn

U S Tool Co 255 N 18th Ampere (East Orange) N J (For punch presses)

Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio (For drilling reaming and tapping)

**FELT, INSULATING—See Insulation, Felt, Hair, Paper, etc.**

## FELT, Polishing and Rubbing

American Felt Co 25 Glenville Rd Glenville Conn "AAAA"

Bacon Felt Co 11 Fifth St Taunton Mass "Paramount"

Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y

Brawley Felt Co T R 272 20th St Brooklyn N Y

Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"

Continental Felt Co 22 W 15th St N Y 11 N Y "Vel-Fel"

Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"

Rhodes & Co James H 153 W Hubbard St Chicago 10 Ill

Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill

Rhopac Inc 3425 Cleveland St Skokie Ill

Standard Felt Co 29-115 S Palm Ave Alhambra Calif

**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

## FELT, Sheet

(For felt washers or gaskets—see Washers, Felt)

American Felt Co 25 Glenville Rd Glenville Conn "Afco"

Auburn Mfg Co Pease Ave & Stack St Middletown Conn

Bacon Felt Co 11 Fifth St Taunton Mass "Paramount"

Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y

Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"

Continental Felt Co 22 W 15th St N Y 11 N Y "Vel-Fel"

Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill

Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill "Colossus"

Rhopac Inc 3425 Cleveland St Skokie Ill

Standard Felt Co 29-115 S Palm Ave Alhambra Calif

Sutherland Leather & Felt Co 743 Beaubien St Detroit 26 Mich

**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

## FELT, Upholstery

(For use in place of hair or moss; see also Hair, Upholstery; also Moss, Upholstery)

American Felt Co 25 Glenville Rd Glenville Conn "Afco"

American Forest Products Co Box 911 Norristown Pa

American Hair & Felt Co 322 Merchandise Mart, Chicago 54 Ill

Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y

Burkart Mfg Co F 4900 N Second St St Louis 7 Mo

Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"

Continental Felt Co 22 W 15th St N Y 11 N Y "Vel-Fel"

Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill

**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

**FENDER BRACKETS—See Brackets, Fender (Truck)**

**FENDER GRILLE GUARDS — See Guards, Radiator Grille, Fender and Trunk**

**FENDER HOUSINGS—See Housings, Wheel and Fender**

**FENDER ROLLING MACHINES — See Machines, Forming (Cold Roll)**

## FENDERS, Auto, Truck and Trailer

Ansted Corp 1428 W Henry St Indianapolis 7 Ind

Bath Co Cyril 32400 Aurora Rd Solon Ohio

Budd Mfg Co Edw G Hunting Park Ave & 25th St Philadelphia Pa

Champion Sheet Metal Co 2 Squires St Cortland N Y (Trucks to order)

Chicago Mfg Co 411 N Trumbull Ave Chicago Ill

Cutler Metal Products Co 1025 Line St Camden N J

Master Tank & Welding 1612 Singleton Blvd Dallas 22 Tex (Contour for trucks and trailers)

**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiber glass reinforced for trucks)**

Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio (Bus truck and fire engines)

Saginaw Sheet Metal Parts Corp 2064 E Genesee Ave Saginaw Mich (Truck and utility trailer)

Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis

York Corrugating Co Adams St & W Md R R York Pa (Truck and trailer)

Youngstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio (Truck)

**FIBRE, FABRIC (FOR SEAT COVERS)—See Fabric, Fibre (Seat Cover)**

## FIBRE, Hard

(Sheet rod and tube)

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa (Gasket material)

Auburn Mfg Co Pease Ave & Stack St Middletown Conn

Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del

Continental-Diamond Fibre Corp Newark 2 Del "Diamond"

Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del

Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa

Morley Co 865 Islington St Portsmouth N H "Milonite"

National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del (Vulcanized)

Spaulding Fibre Co 310 Wheeler St Tonawanda N Y

**TAYLOR FIBRE CO Norristown 49 Pa (Vulcanized)**

United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill

West Virginia Pulp & Paper Co Board Products Sales Covington Va "Electrite" "Densite" "Pressite"

Wilmington Fibre Specialty Co New Castle Del

Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis (Washers)

## FIBRE, Laminated

**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Diamond" "Vulcold"**

**FIBRE PARTS—See Parts, Fibre**

**FIFTH WHEELS—See Wheels, Fifth**

**FILE CLEANING BRUSHES—See Brushes, File Cleaning**

## FILES and RASPS

Airetool Mfg Co 302 S Center St Springfield Ohio (Rotary files)
American Saw & Mfg Co 67-71 Boylston St Springfield Mass "Lenox"
Atkins Saw Div Borg-Warner Corp 402 S Illinois St Indianapolis 25 Ind "Silver Steel"
Disston Div H K Porter Co Unruh & Milnor Sts Tacony Philadelphia 35 Pa
Dixon Inc William 32 E Kinney St Newark N J
Do All Co 254 N Laurel Ave Des Plaines Ill (Band files)
Heller Tool Co Heller Dr Newcomerstown Ohio "Nucut" (American pattern "American Swiss" Swiss pattern files "Vixen" milled curved tooth files)
Nicholson File Co Providence 1 R I "Arcade" "Black Diamond" "Kearney & Foot" "Nicholson" "X-F"
Nolvex File Co 10329 Detroit Ave Cleveland 2 Ohio "Blue Streak" (American pattern; "Nolvex" milled curved tooth)
Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich (Rotary and carbide hand)
Simonds Saw & Steel Co 470 Main St Fitchburg Mass "American" (American pattern; Swiss pattern files "Vixen" milled curved-tooth files; rotary)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco" (Tire rasps)

**FILTER PARTS (Auto)—See Parts, Filter (Auto)**

**FILTERS Air (Auto)—See Cleaners, Air Carburetors (Auto)**

## FILTERS, Air Line

**(For installation on stationary engines, air compressors, etc.)**

**(See also Cleaners, Air (Machinery)**

**ADAMS CO R P 264 E Park Drive Buffalo 17 N Y**

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

Anker-Holth Div of Wellman Engrg Co 2723 Connors St Port Huron Mich
Bendix Filter Div Bendix Corp 434 W 12 Mile Rd Royal Oak Mich
Big Four Industries Inc Maineville (Foster) Ohio "Big-Four Dri-Clean"
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Texas
Cuno Energy Corp 80 S Vine St Meriden Conn
Dollinger Corp 20 Centre Park Rochester 3 N Y "Staynew"
Gardner-Denver Co S Front St Quincy Ill
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Gray Co 60 11th Ave N E Minneapolis 13 Minn
Hanna Engrg Works 1765 Elston Ave Chicago 22 Ill
Hannifin Co 543 S Wolf Rd Des Plaines Ill "Crown"
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Fulflo"
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
Modernair Corp 400 Preda St San Leandro Calif
Norgren Co C A 3400 S Elati St Englewood Calif (Cylinders and power tools)
Research Products Corp 7015 E Washington Ave Madison 1 Wis "RP"
S-P Mfg Corp 30201 Aurora Rd Solon Ohio

**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite Tri-Duty"**

Waterman Hydraulics Corp 725 Custer St Evanston Ill
Watts Regulator Co 10 Embankment St Lawrence Mass
Wilkerson Corp 1601 W Girard Ave Englewood Colo "Aqua-Jet" "Wilk-O-Matic" "Arid-Air" "Auto-Jet" "Whirl Flo"
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## FILTERS, Air (Paint Spray Booth)

**RESEARCH PRODUCTS CORP 1015 E Washington Ave Madison 1 Wis "RP"**

## FILTERS, Cutting Oil

**(For cutting oil reclaimers—See Reclaimers, Cutting Oil)**

**BARNES DRILL CO 826 Chestnut St Rockford Ill "Kleenall"**

Cuno Engrg Corp 80 S Vine St Meriden Conn
DeLaval Separator Co Poughkeepsie N Y
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Honan-Crane" "CFC" "Fulflo" "Delpark"
Murray-Way Corp (P O Box 180) Maple Rd E Birmingham Mich
United States Hoffman Machinery Corp Industrial Filtration Div 105 Fourth Ave N Y 3 N Y "Hoffman"
W G B Oil Clarifier Inc 139 Cornell St Kingston N Y

## FILTERS, Engine Coolant

**FRAM CORP Pawtucket Ave Providence 16 R I**

Lee Filter Corp Edison N J
Perry Filter Div R M Hollingshead Corp 840 Cooper St Camden 2 N J

## FILTERS, Fuel (For Diesel Engines)

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass
Bendix Filter Div Bendix Corp 434 W 12 Mile Rd Royal Oak Mich
Briggs Filtration Co Automotive Div River Rd Washington 16 D C
Cuno Engrg Corp 80 S Vine St Meriden Conn
DeLuxe Products Corp 1201 Michigan Blvd Racine Wis

**FRAM CORP Pawtucket Ave Providence 16 R I**

Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Roosa-Master"
Hilliard Corp 113 W Fourth St Elmira N Y "Hilco"
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Michiana" "Fulflo"

**LUBER-FINER INC 2514 S Grand Ave Los Angeles 7 Calif "Luber-Finer Dieselpak" "Imperial Dieselpak"**

**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J**

W G B Oil Clarifier Inc 139 Cornell St Kingston N Y
Winslow Engrg & Mfg Co 4069 Hollis St Oakland 8 Calif

## FILTERS, Gasoline (Auto)

**(Filter assemblies for use between tank and carburetor to remove dirt and water; for gasoline strainers only—See Strainers, Gasoline)**

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif "Algas" (LP-Gas)
American Motor Products Co Fond du Lac Wis "Ampco"
Baldwin Mfg Co J A P O Box 656 Kearney Nebr
Bendix Filter Div Bendix Corp 434 W 12 Mile Rd Royal Oak Mich
Briggs Filtration Co Automotive Div River Rd Washington 16 D C
Carter Carburetor Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo
Century Gas Equipment Marvel-Schebler Products Div Borg-Warner Corp 625 Southside Drive Decatur Ill (LP-Gas)
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Chilton Metal Products Inc 300 Breed St Chilton Wis
Cuno Engrg Corp 80 S Vine St Meriden Conn

**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**

DeLuxe Products Corp 1201 Michigan Blvd Racine Wis
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Perma-Bronze"

**FRAM CORP Pawtucket Ave Providence 16 R I**

Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd L I City 1 N Y
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
J & S Carburetor Co P O Box 10391 Dallas 7 Tex (LP-gas)
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Klemm Automotive Products Co 1718 N Damen Ave Chicago 47 Ill
Lee Filter Corp Edison N J
Paser Mfg Co 537 Turk St San Francisco 2 Calif "Mileage Minder"

**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J**

Sparkler Mfg Co Lake St Mundelein Ill
Tillotson Mfg Co 761 Berdan St Toledo 12 Ohio "Fil-Trap"

**ZENITH CARBURETOR Div of Bendix Corp 696 Hart Ave Detroit 14 Mich (Also LP-G)**

## FILTERS, Hydraulic Fluid

Barnes Corp John S 301 S Water St Rockford Ill
Bendix Filter Div Bendix Corp 434 W 12 Mile Rd Royal Oak Mich
Char-Lynn Co 2843 26th Ave S Minneapolis 6 Minn

**LUBER-FINER INC 2514 S Grand Ave Los Angeles 7 Calif**

**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J**

Rosaen Co 1776 E Nine Mile Rd Hazel Park Mich "Tell-Tale"
Schroeder Bros Corp Nichol Ave McKees Rocks Pa
Vickers Inc Mobile Hydraulics Div Administrative & Engrg Center Detroit 32 Mich

## FILTERS, Oil (For Attaching to Engines)

**(See also Strainers, Oil)**

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**

**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**

Baldwin Mfg Co J A P O Box 656 Kearney Nebr
Bendix Filter Div Bendix Corp 434 W 12 Mile Rd Royal Oak Mich
Bolser Corp S Main St Cedar Falls Iowa "Re-Pak-It"
Briggs Filtration Co Automotive Div River Rd Washington 16 D C
C A V Fuel Injection Equipment Div of Lucas Electrical Services Inc 14820 Detroit Ave Cleveland 7 Ohio (Importers)
Champion Laboratories Inc Box 189 West Salem Ill "Ace" "Champ Kleen Pak"
Continental Mfg Corp 10411 W Washington Blvd Culver City Calif "Life-Time"
Cuno Engrg Corp 80 S Vine St Meriden Conn
Cyclone Filter Corp 4401 W North Ave Chicago 39 Ill
DeLuxe Products Corp 1201 Michigan Ave Racine Wis
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Improved-Lifetime" "Perma-Bronze"

**FRAM CORP Pawtucket Ave Providence 16 R I "Cel-U-Pak" "Fram Filteron" "Duo-Tronic" "Filtronic"**

Hastings Mfg Co N Hanover St Hastings Mich
Hilliard Corp 113 W Fourth St Elmira N Y "Hilco"
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "Michiana" "Fulflo"
Lee Filter Corp Edison N J

**LUBER-FINER INC 2514 S Grand Ave Los Angeles 7 Calif**

Nugent & Co Wm W 3440 Cleveland St Skokie Ill
Oilpure Refiner Co 5406 San Fernando Rd Glendale Calif

**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J "Purolator" "Micronic"**

W G B Oil Clarifier Inc 139 Cornell St Kingston N Y
Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis "Duocron"
Winslow Engrg & Mfg Co 4069 Hollis St Oakland 8 Calif
Wix Corp 1211 Ozark St Gastonia N C "Wix-O-Matic"

## FILTERS, Oil (Transmission)

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich

**FILTERS, RADIO IGNITION—See Radio Accessories (Auto)**

## FINISHES, Heat Resistant (Metal)

**MIDLAND INDUSTRIAL FINISHES CO E Water St Waukegan Ill (Silicone)**

## FINISHING SYSTEMS, Complete

(For cleaning, rust proofing, drying, painting and baking)

Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio

**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**

De Vilbiss Metal Fabricators Co 17900 Ryan Rd Detroit 12 Mich

Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"

**DU PONT DE NEMOURS & CO E I ELECTROCHEMICAL DEPT - CHLORINE PRODUCTS DIV Wilmington 98 Del "Triclene"**

**MAHON CO R C 6565 E 8 Mile Rd Detroit 34 Mich**

FIRE APPARATUS, MOTORIZED — See Trucks, Fire

FIRE HOSE—See Hose, Fire

FIRE TRUCKS, INDUSTRIAL—See Trucks, Fire (Industrial)

FITTINGS, AUTOMOBILE and TRUCK BODY — See Hardware, Automobile and Truck Body

## FITTINGS, Bus

(Including all hardware and irons used in bus body construction; such as enameled pipes, stanchions, seat irons, etc.)

Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich

Bath Co Cyril 32400 Aurora Rd Solon Ohio

Tompkins H S 188 Chambers St New York 7 N Y

Troy Sunshade Co Troy Ohio (Stanchions and grab rails)

FITTINGS HEATER—See Parts and Fittings Heater

## FITTINGS, Lubricating

(For guns for use with fittings, see Lubricators, Hand)

Aro Equipment Co Bryan Ohio

Balcrank Inc Disney St nr Marburg Cincinnati Ohio

Bowen Products Corp Auburn N Y

Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill

Gray Co 60 11th Ave N E Minneapolis 13 Minn "Graco"

Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Bullneck" & "Kleenseal"

Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"

Perfect Parts Inc 43 W 23rd St N Y 10 N Y

Planet Metal Products Corp 964 Dean St Brooklyn 16 N Y

Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite"

Universal Lubricating Systems Inc 747 Allegheny Ave Oakmont Pa

## FITTINGS, Tank

Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich

## FITTINGS, Tube (Aluminum)

(Unions, tees, ells, etc., for connecting small size aluminum tubing)

Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill "Sealastic"

**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill "Hi-Duty" & "Imperial"**

Masters Inc Irvin W 1060 N Lake St Burbank Calif

Parker-Hannifin Corp Parker Fittings & Hose Div 17325 Euclid Ave Cleveland 12 Ohio "Triple-Lok" (Flare)

Vibra Seal Corp 2832 E Grand St Detroit Mich

## FITTINGS, Tube (Copper or Brass)

(Unions, tees, ells, etc., for connecting small size brass and copper tubing)

Acme Air Appliance Co 205 Newman St Hackensack N J

Anchor Coupling Co 342 N 4th St Libertyville Ill

Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich "Kantleak"

Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn

Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill "Sealastic"

Circle Z RFD No 2 Promfret Center Conn

Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich

Consolidated Brass Co Matthews N C

Dole Valve Co 6201 Oakton St Morton Grove Ill

Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill "Thermo-Matic"

Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everhot" (Brass; "Ever-seal" self-flaring)

Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y (Brass)

**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill "Flex" "Ermento" "Hi-Seal" "Brax-Seal" "Imperial" "Hi-Duty" (Brass)**

International Parts Corp 4101 W 42nd Pl Chicago 32 Ill

Lincoln Brass Works 2067 12th St Detroit 16 Mich

Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"

Lukenheimer Co Beekman St & Waverly Ave Cincinnati 14 Ohio

Masters Inc Irvin W 1060 N Lake St Burbank Calif (Brass)

Mueller Brass Co 1925 Lapeer Ave Port Huron Mich

National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"

Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio "Triple-lok" (Brass flare; "Intrulok" brass flareless)

Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y (Brass)

Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y

Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite"

Velvac Inc 3530 W Pierce St Milwaukee 15 Wis

**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind "Selfalign" (Flareless brass) (Brass)**

Z & W Machine Mfg Corp 30240 Lakeland Blvd Wickliffe Ohio

## FITTINGS, Tube (Steel)

**BABCOCK & WILCOX CO Tubular Products Div Beaver Falls Pa**

Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill "Rubbernek"

**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill "Hi-Seal" "Imperial"**

Masters Inc Irwin W 1060 N Lake St Burbank Calif (Stainless)

Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio "Ferulok" (Flareless; "Triple-lok" stainless flare)

Republic Steel Corp 1441 Republic Bldg Cleveland 1 Ohio

Tru-Seal Div Flick-Reed Corp 7N015 York Rd Bensenville Ill

**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind "Flare - Twin" "Tef - Seal"; "Ermeto" (Flareless)**

FLAME CUTTING MACHINES — See Machines, Flame Cutting

FLAME DETECTORS—See Detectors, Flame

FLAME SAFEGUARDS, INDUSTRIAL BURNER—See Safeguards, Flame (Industrial Burner)

## FLANGES, Hub (Pressed Steel)

(For forged or cast flanges—see Forgings)

Crosby Co 183 Pratt St Buffalo 5 N Y

Konigslow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio

FLAPS, FENDER—See Guards, Fender Splash

FLARING TOOLS, TUBE—See Tools, Tube Flaring

FLASH TRIMMING MACHINES — See Machines, Flash Trimming

## FLASHERS, Directional Signal (Auto)

Advanced Mfg Inc 738 W 17th St Costa Mesa Calif

Arrow Safety Device Co Mt Holly N J

Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Alco"

Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass

Dietz Co R E 225 Wilkinson St Syracuse 1 N Y (Truck and fire equipment)

Ideal Corp 435 Liberty Ave Brooklyn 7 N Y

Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y (Also emergency for disability parking)

Sparton Automotive Div of Sparton Corp Jackson Mich

Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis

**TUNG-SOL ELECTRIC INC 1 Summer Ave Newark 4 N J**

Yankee Metal Products Corp 25 Grand St Norwalk Conn "Mirrorscope"

## FLASHERS, School Bus

Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass

Ring-Wald Products Inc 123 N Lowry Ave Springfield Ohio

FLEXIBLE SHAFTING—See Shafting, Flexible

FLEXIBLE SHAFT MACHINES — See Machines, Flexible Shaft (Portable Electric)

FLINT PAPER—See Paper, Abrasive

## FLOATS, Cellular Rubber

Rogers Corp Rogers Conn

## FLOATS, Cork

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa (Carburetor and gage)

Chicago Cork Works Co 6001 Gross Point Rd Niles Ill (Carburetor)

Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J

## FLOATS, Metal

Ayling & Reichert Co 3041 N Erie St Toledo Ohio (Copper and brass for carburetors etc)

Superior Seal & Stamp Co 1401 Vermont Ave Detroit 16 Mich (Carburetor)

## FLOATS, Oil Pump

(To draw clean oil from top of crankcase)

Taylor Products Div Tecumseh Products Co 1100 W Beardsley Ave Elkhart Ind "Float-O"

## FLOCK, Decorative (Auto)

**CELLUSUEDE PRODUCTS INC 501 N Madison St Rockford Ill**

FLOOR COVERINGS, BUS AND TRUCK—See Coverings, Floor (Bus or Truck)

FLOOR PADS, FELT—See Pads, Floor (Felt, Jute, etc.)

FLOOR PLATES (Steel)—See Plates, Floor (Bus or Truck)

## FLOORING, Truck & Trailer

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum)

Armstrong Cork Co Industrial Div Lancaster Pa (Vinyl plastic for station wagons)

Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn (Aluminum for trailers)

Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich (Aluminum for refrigerated trailers)

Revere Copper and Brass Inc 230 Park Ave N Y 17 N Y (Aluminum)

Reynolds Metals Co 6601 Broad St Richmond 19 Va (Aluminum)

United States Plywood Corp Weldwood Bldg 55 W 44th St N Y 36 N Y "Weldwood Permaply"

FLOW CONTROL VALVES (Temperature and Pressure)—See Valves, Flow Control (Temperature and Pressure)

FLOW TEST STANDS—See Stands, Engine Fuel Flow Test (Automotive)

## FLOWMETERS

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y

Cox Instruments Div George L Nankervis Co 15300 Fullerton St Detroit 27 Mich

Fischer & Porter Co 700 Warminster Rd Warminster Pa

Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Aves Philadelphia 44 Pa

Potter Aeronautical Corp Route 22 Union N J

Schroeder Bros Corp Nichol Ave McKees Rocks Pa (Portable hydraulic circuit tester)

Wallace & Tiernan Inc 25 Main St Belleville 9 N J

FLUID, BRAKE BONDING—See Compounds, Brake Bonding

FLUID CONTROL VALVES—See Valves, Hydraulic

FLUID COUPLINGS—See Couplings, Fluid (Machinery)

## FLUID, Hydraulic

Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
General Electric Co Silicone Products Dept Waterford N Y (Silicone)
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Hydro-Drive"
Permatex Co 300 Broadway Huntington Station N Y
Socony Mobil Oil Co 150 E 42nd St N Y 17 N Y "Mobil" (Sole distributors Mobil Oil Co 150 E 42nd St N Y 17 N Y)
**STANDARD OIL CO (Indiana) 910 S Michigan Ave Chicago 80 Ill "Stanoil"**
**SUN OIL CO 1608 Walnut St Philadelphia 3 Pa "Sunvis" "Suntac" "Circo" "Lubeway" "Solnus" "Sunvis"**
Texaco Inc 135 E 42nd St New York 17 N Y

## FLUID, Hydraulic Brake and Shock Absorber

Barton Products Co 1891 N Winnebago Ave Chicago 47 Ill
Battenfeld Grease & Oil Corp 3148 Roanoke Rd Kansas City 8 Mo "Ultra Lube" (Brake)
Bell Co 411 N Wolcott Ave Chicago 22 Ill "Flare" (Brake)
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind (Brake)
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio (Brake)**
**DOW CHEMICAL CO Midland Mich**
Drew & Co E F Automotive Chemicals Div 15 E 26th St New York N Y "Ameroid" (Brake)
du Pont de Nemours & Co Fabric & Finishes Dept Finishes Div Wilmington 98 Del (Brake)
Eis Automotive Corp Middletown Conn (Brake)
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St N Y 19 N Y "Atlas"; "Esso" (Shock absorber)
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N Y (Brake)
Hollingshead Corp R M 840 Cooper St Camden N J "Whiz" "Carlife" "Universal"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Houghto-Safe"
Lisle Corp Brake Div 805 E Main St Clarinda Iowa
Loreman Products 607 Pine Bluff Rd Salisbury Md (Brake)
Master Automotive Chemicals Inc 37 Preston Ct Brooklyn 34 N Y "Guaranteed" (Brake; "Shock Master" shock absorbers)
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill (Brake)
Octagon Process Inc 15 Bank St Staten Island 1 N Y
Olin Mathieson Chemical Corp Chemicals Div Mathieson Bldg Baltimore 3 Md "Puritan"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko"
Penetone Co 74 Hudson Ave Tenafly N J (Brake)
Permatex Co 300 Broadway Huntington Station N Y
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid" (Brake)
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn (Brake)
Service Supply Co 1115 Seventh St Denver 4 Colo "Serco" (Brake)
Shell Oil Co 50 W 50th St New York 20 N Y
Simoniz Co 2100 Indiana Ave Chicago 16 Ill (Brake)
Sinclair Refining Co 600 Fifth Ave New York 20 N Y (Brake)
Stanley Co John T 642 W 30th St New York N Y "Mobo"
Tumbler Laboratories Inc J A 423 S Hanover St Baltimore 1 Md
Union Carbide Chemical Co 270 Park Ave N Y 17 N Y "Ucon" (Brake)
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo "Lockheed" (Brake)**

## FLUID, Starting (Engine)

Christy Chemical Corp 37 Harvard St Worcester 8 Mass
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
Heet Div of DeMert & Dougherty Inc 5000 W 41st St Chicago Ill "H D P"
Pyroil Co 122 N Main St LaCrosse Wis
Service Supply Co 1115 Seventh St Denver 4 Colo "Serco"
Siloo Inc 9 E 45th St New York 17 N Y
**SPRAY PRODUCTS CORP PO BOX 1988 Camden 1 N J**
Standard Oil Co of California Western Operations Inc 225 Bush St San Francisco 20 Calif "Chevron"
Start Pilot Corp 61 Second St Mineola N Y
Turner Corp 821 Park Ave Sycamore Ill "Quick-Start"
Wilco Co 4425 Bandini Blvd Los Angeles 23 Calif "Sure-Fire"

## FLUID, Transmission

Bardahl Mfg Corp 1400 W 52nd St Seattle 7 Wash
Battenfeld Grease & Oil Corp 3148 Roanoke Rd Kansas City 8 Mo "Ultra Lube"
Continental Oil Co Texas National Bank Bldg 1300 Main St Houston Texas "Conco"
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y
Kendall Refining Co 77 N Kendall Ave Bradford Pa (Automatic)
Lubrication Engineers Inc 2807 Race St Fort Worth 11 Texas "LE"
Master Automotive Chemicals Inc 37 Preston Court Brooklyn 34 N Y
Park Chemical Co 8047 Military Ave Detroit 4 Mich
Permatex Co 300 Broadway Huntington Station N Y
Phillips Petroleum Co Bartlesville Okla
Quaker State Oil Refining Corp Quaker State Bldg Oil City Pa "Quaker State Quadromatic"
Shell Oil Co 50 W 50th St New York 20 N Y
Sinclair Refining Co 600 Fifth Ave New York 20 N Y
**SUN OIL CO 1608 Walnut St Philadelphia 3 Pa "Sunoco Transmatic" "Sunoco Suntork"**
Texaco Inc 135 E 42nd St New York 17 N Y (Automatic)
Tumbler J A Laboratories Inc 423 Hanover St Baltimore 1 Md
Valvoline Oil Co Div of Ashland Oil & Refining Corp Third Ave & Sixth St Freedom Pa "Valvomatic"

## FLUX, Brazing, Welding or Soldering

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco"
All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "All-State" ("Duzall" Soldering "Brazoloy" brazing)
Amchem Products Inc Brookside Ave & Reading R R Ambler Pa "Flosol" (Soldering)
American Platinum & Silver Div Engelhard Industries Inc 231 N J R R Ave Newark 5 N J (Soldering)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Soldering)
Bruce Products Corp 500 N West St Howell Mich "Bruko" (Soldering)
Buchanan Chemical C G Co 3112 Portsmouth Ave Cincinnati 8 Ohio "Buchanan" (Soldering; "Tri-B" brazing and welding)
Division Lead Co 7742 W 61st Place Summit Ill "Divco" (Soldering)
Dunton Co M W 350 Kinsley Ave Providence R I "Dunton" "Kwik" "Nokorode" "Silver Label" (Soldering)
du Pont de Nemours & Co E I Industrial & Biochemicals Dept Wilmington 98 Del "Eureka" "Kleanrol" (Soldering)
Eutectic Welding Alloys Corp 40-40 172nd St Flushing 58 N Y "Atmos" "Auto Chemic" "Eutechrom" "Eutec-Liquitor" "Eutector" "Flotectic" (Brazing and welding; "AluTin" "Auto Chemic" "EutecSol" "Eutector" "Flotectic" soldering
Farrelloy Co 1243 N 26th St Philadelphia 21 Pa "AG" "ASMC" "Farco" "Farcol" "Fas-Tin" "Hy-Tin" "Lyston" "Mayolyte" "SCS" "Thermo-Lo" "Wetoil"
Handy & Harmon 82 Fulton St New York 38 N Y
Johnson Mfg Co 616 N First Ave Mount Vernon Iowa "Alumaweld" "Johnson's" "Lloyd's"
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Sol Flux" (Soldering)
Krembs & Co 669 W Ohio St Chicago 10 Ill "Fluxine"
Lenk Mfg Co Franklin Ky (Soldering)
Linde Co 270 Park Ave N Y 17 N Y "Brazo" "Cromaley" "Ferro" "Oxweld" (Brazing and welding)
National Lead Co 111 Broadway New York 6 N Y "Dutch Boy" (Soldering)
Peterson Machine Tool Inc 6200 Merriam Drive Merriam Kans
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn (Brazing and welding)
Tolman Mfg Co 19-21 W Third St South Boston 27 Mass (Brazing and welding)
Wayne Chemical Products Co Copeland Ave & M C R R Detroit 17 Mich "Meltomatic" "Wayne" (Soldering)

## FORGES, Rivet (Oil Burning)

Hauck Mfg Co 124 Tenth St Brooklyn N Y
Johnson Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Mahr Mfg Co 7444 Girard Ave S Minneapolis 23 Minn

**FORGING FURNACES — See Furnaces, Forging and Welding**
**FORGING MACHINES — See Machines, Forging**
**FORGING PRESSES—See Presses, Forging**

## FORGINGS, Aircraft

Auld Co D L Fifth Ave & Fifth St Columbus 1 Ohio (Aluminum)
Ladish Co 5481 S Packard Ave Cudahy Wis
Lansing Drop Forge Co 2807 S Logan St Lansing 2 Mich
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Aluminum

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich "Bohnalite"
Brewer-Tichener Corp 115 Pt Watson St Cortland N Y
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Burke Steel Co 30 Sherer St Rochester 2 N Y
Doehler-Jarvis Div of National Lead Co Snead & Prospect Aves Toledo 1 Ohio
Harvey Aluminum 19200 S Western Ave Torrence Calif
Kaiser Aluminum & Chemical Corp 1924 Broadway Oakland 12 Calif
Ladish Co 5481 S Packard Ave Cudahy Wis
Lansing Drop Forge Co 2807 S Logan St Lansing 2 Mich
Portland Forge Inc 1954 E Washington St Portland Ind
Revere Copper and Brass Inc 230 Park Ave New York 1 N Y
Scovill Mfg Co 99 Mill St Waterbury 20 Conn
Titan Metal Mfg Co Bellefonte Pa
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
Unit Drop Forge Div of Fuller Mfg Co 1903 S 62nd St Milwaukee 1 Wis
Williams & Co J H 400 Vulcan St Buffalo 7 N Y
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Beryllium

**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Brass and Bronze

Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis (Aluminum bronze)
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich "Bohnalite" (Brass)
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich
Joost Mfg Co 742 Bancroft Way Berkeley 10 Calif (Brass)
Moore Drop Forging Co 38 Walter St Springfield 7 Mass "Morco"
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
Revere Copper and Brass Inc 230 Park Ave New York 1 N Y
Steel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio
Titan Metal Mfg Co Bellefonte Pa
Unit Drop Forge Div of Fuller Mfg Co 1903 S 62nd St Milwaukee 1 Wis (Brass)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

## FORGINGS, Columbium

**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, High Density Alloy

**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Iron

Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio

## FORGINGS, Magnesium

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Ladish Co 5481 S Packard Ave Cudahy Wis
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Molybdenum

**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Ring

Ladish Co 5481 S Packard Ave Cudahy Wis
Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio
Steel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**

## FORGINGS, Steel

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
Amforge Div American Brake Shoe Co 1220 W 119th St Chicago 43 Ill
Atlas Drop Forge Co 209 W Mt Hope Ave Lansing 4 Mich
Bethlehem Steel Co Bethlehem Pa
Brewer-Titchener Corp 115 Pt Watson St Cortland N Y (Stainless)
Burke Steel Co 30 Sherer St Rochester 2 N Y
Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio
Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich
Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio**
Dietz Forge Co E Pleasant St DeKalb Ill
**EATON MFG CO Marion Forge Div Route 95 W Marion Ohio (Differential ring gear and pinion)**
Endicott Forging & Mfg Co 1913 North St Endicott N Y
**HEPPENSTALL CO 4620 Hatfield St Pittsburgh 1 Pa**
Interstate Drop Forge Co 4051 N 27th St Milwaukee Wis
Jessop Steel Co Green St Washington Pa
Joost Mfg Co 742 Bancroft Way Berkeley 10 Calif
Kropp Forge Co 5301 W Roosevelt Rd Cicero 50 Ill
Ladish Co 5481 S Packard Ave Cudahy Wis
Lansing Drop Forge Co 2807 S Logan St Lansing 2 Mich
McInnes Steel Co 441 E Main St Cory Pa
Mather Spring Co P O Box 6695 West Toledo Station Toledo 12 Ohio
Moore Drop Forging Co 38 Walter St Springfield 7 Mass "Morco"
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
Pittsburgh Forgings Co Thorn St Coraopolis Pa
Porter Forge and Furnace Inc 74 Foley St Somerville 43 Mass
Portland Forge Inc 1954 E Washington St Portland Ind
Rockford Drop Forge Co 2031 Ninth St Rockford Ill
Rockwell-Standard Corp Forge Div Clark St Detroit 32 Mich
Shuler Axle Co 2901 S Second St Louisville 8 Ky
Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio (Welded ring)
Standard Forge & Axle Co P O Box 309 Montgomery 2 Ala
Steel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio (Stainless)
Thompson Products Valve Div Thompson-Ramo - Wooldridge Inc 1455 E 185th St Cleveland 10 Ohio
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
Union Forging Co 500 North St Endicott N Y
Unit Drop Forge Div of Fuller Mfg Co 1903 S 62nd St Milwaukee 1 Wis
**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**
Universal Cyclops Steel Corp Station St Bridgeville Pa
Vanadium-Alloys Steel Co Latrobe Pa
Williams & Co J H 400 Vulcan St Buffalo 7 N Y
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

## FORGINGS, Titanium

Harvey Aluminum 19200 S Western Ave Torrance Calif
Steel Improvement & Forge Co 970 E 64th St Cleveland 3 Ohio
**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**
**WYMAN-GORDON CO 105 Madison St Worcester 1 Mass**

**FORM GRINDING MACHINES—See Machines, Grinding (Form)**

**FORMING MACHINES, COLD ROLL—See Machines, Forming (Cold Roll)**

## FORMS, Wire

A K Tool Co Route 22 Mountainside N J
All-Rite Spring Co 7333 W Wilson Ave Chicago 31 Ill
American Spring & Wire Specialty Co 816 N Spaulding Ave Chicago 51 Ill
American Steel Co P O Box 230 Sixth & Spring St Ellwood City Pa
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
Eastern Tool & Mfg Corp Montgomery St Belleville 9 N J
Eaton Mfg Co Spring Div 9771 French Rd Detroit 31 Mich
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich
Michigan Spring Co 2700 Wickham Dr Muskegan Mich
Rockford Bolt & Steel Co 226 Mill St Rockford Ill
Rockwell-Standard Corp Spring Div 301 East St Chelsea Mich
Saginaw Wire Products Inc 5763 Dixie Highway Saginaw Mich
Timms Spring Co Taylor & Boston Sts Elyria Ohio
Titchener & Co E H 67 Clinton St Binghamton N Y
Union Steel Products Co Albion Mich
U S Steel Wire Spring Co 7800 Finney Ave Cleveland 5 Ohio

## FOUNDATIONS, Body Upholstery

Fabricon Products Div of Eagle-Picher Co 1721 Pleasant Ave River Rouge 18 Mich
Ruberoid Co 500 Fifth Ave N Y 36 N Y

**FOUNDRY COMPOUNDS — See Compounds, Core also Compounds Degassing**

**FOUR-WHEEL DRIVE ASSEMBLIES (For Light Trucks)—See Assemblies, Four-Wheel Drive**

**FRAME PADDING——See Lining, Body or Frame**

## FRAMES, Auto or Truck (Pressed Steel)

Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa (Chassis)
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Midland-Ross Corp Cleveland Div Madison Ave & W 106th St Cleveland Ohio (Buick Studebaker Willys and GMC trucks)
**PARISH PRESSED STEEL Div of Dana Corp Robeson & Weiser Sts Reading Pa**
Smith Corp A O 3533 N 27th St Milwaukee 1 Wis

## FRAMES, Seat

American Forging & Socket Co P O Box 210 Pontiac Mich (Bucket and folding)
American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich
Douglas & Lamason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Ionia Mfg Co Div of Mitchel-Bentley Corp 121 S Dexter St Ionia Mich
Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio
Rockwell-Standard Corp Seating Div 7035 W 65th St Chicago 38 Ill

## FRAMES, Trailer

Elkhart Welding & Boiler Works Inc 2132 S Main St Elkhart Ind "Bock" (Mobile)

## FRAMES, Truck (Swivel)

Truckstell Mfg Co 3490 W 140th St Cleveland 11 Ohio "Truckstell Willock"

## FRAMES, Window, Metal (Auto)

Adams & Westlake Co 1019 N Michigan St Elkhart Ind "Adlake" (Auto and bus)
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich

## FRICTION MATERIAL

All-O-Matic Mfg Corp 2099 Jericho Turnpike New Hyde Park N Y
American Brakeblok Div American Brake Shoe Co P O Box 21 Birmingham Mich
**DELCO MORAINE Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio**
Marshall-Eclipse Div of Bendix Corp Box 538 Troy N Y "Cerametalix"
**RAYBESTOS-MANHATTAN INC Equipment Sales Div P O Box 1021 Bridgeport Conn**

**FRONT END SUSPENSION PARTS — See Parts, Front End Suspension**

**FUEL CONTROL SYSTEMS (JET ENGINE) —See Systems, Fuel Control (Jet Engine)**

**FUEL FILTERS—See Filters, Gasoline (Auto); also Strainers, Gasoline**

**FUEL GAGE TESTERS—See Testers, Fuel Gage**

**FUEL INJECTION TEST STANDS—See Stands, Fuel Injection Test**

**FUEL INJECTORS—See Injection Systems, Diesel & Gasoline Line**

**FUEL LINES, FLEXIBLE—See Tubing, Oil and Gasoline Line**

**FUEL PRESSURE REGULATORS—See Regulators, Fuel Pressure**

**FUEL PUMP PARTS—See Parts, Fuel Pump**

**FUEL PUMPS—See Pumps, Fuel (Auto)**

**FUEL STRAINERS—See Strainers, Gasoline**

**FURNACE CONVEYORS — See Conveyors Furnace**

**FURNACE REGULATORS, ELECTRIC — See Regulators, Furnace (Electric)**

## FURNACES, Aluminum and Babbitt Melting

American Gas Furnace Co. Lafayette Spring & Elizabeth Sts Elizabeth N J
Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
**FISHER FURNACE Div of Lindberg Engineering Co 2476 W Hubbard St Chicago Ill "Lindberg-Fisher"**
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Hones Inc Charles A 139 S Grand Ave Baldwin L I N Y "Buzzer"
Johnson Gas Appliance Co 520 E Ave W Cedar Rapids Iowa (Babbitt)
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis, Minn
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co W S 200 Eliot St Fairfield Conn
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Surface Combustion Div of Midland-Ross Corp 2375 Dorr St Toledo 1 Ohio

**FURNACES, ANNEALING — See Furnaces, Heat Treating**

**FURNACES, BABBITT MELTING—See Furnaces, Aluminum and Babbitt Melting**

**FURNACES, BILLET HEATING—See Furnaces, Forging, Billet Heating and Welding**

## FURNACES, Brazing

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
Continental Industrial Engineers Inc 2321 W Hubbard St Chicago 12 Ill
Electric Furnace Co 539 Wilson Ave Salem Ohio "Elf" "Elfurno" (Brass aluminum copper and silver)
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y
Hayes Inc C I 876 Wellington Ave Cranston 10 R I "Certain Curtain"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Lindberg Engrg Co 2450 W Hubbard St Chicago 12 Ill
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Surface Combustion Div of Midland - Rose Corp 2375 Dorr St Toledo 1 Ohio

**FURNACES, CASE HARDENING—See Furnaces, Heat Treating**

## FURNACES, Conveyor

American Gas Furnace Co Lafayette Spring & Elizabeth Sts Elizabeth N J
Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa (Belt)
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Foundry Equipment Co 1831 Columbus Rd Cleveland 13 Ohio "McCann"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y (Mesh belt)
Hayes Inc C I 876 Wellington Ave Cranston 10 R I
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
**HOLCROFT & CO 6545 Epworth Blvd Detroit 10 Mich**
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Lindberg Engrg Co 2450 W Hubbard St Chicago 12 Ill
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co W S 200 Eliot St Fairfield Conn
Salem-Brosius Inc Arch St Carnegie Pa
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"

## FURNACES, Electric

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
Bellevue Industrial Furnace Co 2971 Bellevue Ave Detroit 7 Mich
Blue M Electric Co 138th & Chatham Sts Blue Island Ill
Detroit Electric Furnace Div Kuhlman Electric Co 1000 26th St Bay City Mich (Metal melting)
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Grieve-Hendry Co 1350 N Elston Ave Chicago 22 Ill
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y
Hayes Inc C I 876 Wellington Ave Cranston 10 R I "Certain Curtain"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Holcroft & Co 6545 Epworth Blvd Detroit 10 Mich
Holden Co A F 14341 Schaefer Highway Detroit 27 Mich
Huppert Co K H 6830 Cottage Grove Ave Chicago 37 Ill (Heat treating)
Lectromelt Furnace Div McGraw Edison Co 32nd St & Allegheny River Pittsburgh 30 Pa
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa
**LINDBERG ENGRG CO 2450 W Hubbard St Chicago 12 Ill**
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co W S 200 Eliot St Fairfield Conn
Salem-Brosius Inc Arch St Carnegie Pa
Sentry Co 62 Main St Foxboro Mass
Standard Fuel Engineering Co 667 Post Ave S Detroit Mich
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Swindell-Dressler Corp PO Box 1888 Pittsburgh 30 Pa
Trent Inc 201 Leverington Ave Philadelphia 27 Pa
Whiting Corp 157th & Lathrop Sts Harvey Ill

## FURNACES, Forging, Billet Heating and Welding

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
Continental Industrial Engineers Inc 2321 W Hubbard St Chicago 12 Ill (Forging)
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno" (Forging and billet heating)
Gas Machinery Co 16100 Waterloo Rd Cleveland 10 Ohio "Gasmaco" (Forging and welding)
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Holcroft & Co 6545 Epworth Blvd Detroit 10 Mich (Forging and welding)
Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y (Forging and welding)
Industrial Heating Equip Co 3570 Fremont Pl Detroit 7 Mich "Circ-Air" (Forging)
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Lindberg Engrg Co 2450 W Hubbard St Chicago 12 Ill
Loftus Engrg Corp 1 Gateway Center Pittsburg 22 Pa (Forging and billet heating)
Mahr Mfg Co 7444 Girard Ave S Minneapolis 23 Minn (Forging and welding)
Rockwell Co W S 200 Eliot St Fairfield Conn
Salem-Brosius Inc Arch St Carnegie Pa (Forging and billet heating)
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Surface Combustion Div of Midland-Ross Corp 2375 Dorr St Toledo 1 Ohio (Forging and welding)

## FURNACES, Gas

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
American Gas Furnace Co Lafayette Spring & Elizabeth Sts Elizabeth N J
Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Grieve-Hendry Co 1350 N Elston Ave Chicago 22 Ill
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Holcroft & Co 6545 Epworth Blvd Detroit 10 Mich
Holden Co A F 11300 Schaefer Highway Detroit 27 Mich
Hones Inc Charles A 139 S Grand Ave Baldwin L I N Y "Buzzer"
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa
**LINDBERG ENGRG CO 2450 W Hubbard St Chicago 12 Ill "Hi-Life"**
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co W S 200 Eliot St Fairfield Conn
Salem-Brosius Inc Arch St Carnegie Pa
Selas Corp of America Dresher Pa
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio
Swindell-Dressler Corp P O Box 1888 Pittsburgh 30 Pa

## FURNACES, Heat Treating

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
American Gas Furnace Co Lafayette Spring & Elizabeth Sts Elizabeth N J
Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
Blue M Electric Co 138th & Chatham Sts Blue Island Ill "Ultra-Temp" (Electric)
Burdett Mfg Co 4920 S Monitor St Chicago 38 Ill
Continental Industrial Engineers, Inc 2321 W. Hubbard St Chicago 12 Ill
DeVilbiss Co 30 Phillips Ave Toledo 1 Ohio
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa
Drying Systems Co 1826 Foster Ave Chicago 40 Ill
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Foundry Equipment Co 1831 Columbus Rd Cleveland 13 Ohio "McCann'
Gas Machinery Co 16100 Waterloo Rd Cleveland 10 Ohio "Gasmaco"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Grieve-Hendry Co 1350 N Elston Ave Chicago 22 Ill (Gas or electric)
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y
Hayes Inc C I 876 Wellington Ave Cranston 10 R I "Certain Curtain" "Flexotemp" "Vacu-Master"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis "Hevi Duty" "Multiple Unit' (Electric and gas)
**HOLCROFT & CO 6545 Epworth Blvd Detroit 10 Mich**
Holden Co A F 14341 Schaefer Highway Detroit 27 Mich
Hones Inc Charles A 139 S Grand Ave Baldwin L I N Y "Buzzer"
Huppert Co K H 6830 Cottage Grove Ave Chicago 37 Ill (Electric)
Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y
Industrial Heating Equip Co 3570 Fremont Pl Detroit 7 Mich "Circ-Air"
Ipsen Industries Inc 715 S Main St Rockford Ill (Automatic)
Johnson Gas Appliance Co 520 E Ave W Cedar Rapids Iowa
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa "Homo" "Homocarb" "Tricarb' (Electric "Vapocarb" electric or gas)
**LINDBERG ENGRG CO 2450 W Hubbard St Chicago 12 Ill "Cyclone" "Hydryzing" "Induct-O-Ring" "Super-Cyclone"**
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Mahr Mfg Co 7444 Girard Ave S Minneapolis 23 Minn (Gas oil and electric)
N R C Equipment Corp 160 Charlemont St Newton 61 Mass
Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif
Rockwell Co W S 200 Eliot St Fairfield Conn.
Salem-Brosius Inc Arch St Carnegie Pa
Selas Corp of America Dresher Pa "Gradiation'
Sentry Co 62 Main St Foxboro Mass
Steiner-Ives Co Springfield Rd Union N J
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Surface Combustion Div of Midland-Ross Corp 2375 Dorr St Toledo 1 Ohio
Swindell-Dressler Corp P O Box 1888 Pittsburgh 30 Pa
Trent Inc 201 Leverington Ave Philadelphia 27 Pa
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich

## FURNACES, Oil

Bellevue Industrial Furnace Co 2620 Crane St Bellevue 14 Mich
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
**HOLCROFT & CO 6545 Epworth Blvd Detroit 10 Mich**
Holden Co A F 14341 Schaefer Highway Detroit 27 Mich
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn.
Loftus Engrg Corp 1 Gateway Center Pittsburgh 22 Pa
Rockwell Co W S 200 Eliot St Fairfield Conn
Salem-Brosius Inc Arch St Carnegie Pa
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"
Swindell-Dressler Corp P O Box 1888 Pittsburgh 30 Pa

## FURNACES, Sintering (Powdered Metal)

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
Drever Co Red Lion Rd & Philmont Ave Bethayres Pa
Electric Furnace Co 539 Wilson Ave Salem Ohio
Haller Inc 16580 Northville Rd Northville Mich (Electric)
Harper Electric Furnace Corp 110 Pearl St Buffalo 2 N Y
Hevi-Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
**LINDBERG ENGRG CO 2450 W Hubbard St Chicago 12 Ill**
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"

## FURNACES, Spring Fitting

Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn

**FURNACES, TEMPERING — See Furnaces, Heat Treating**

## FURNACES, Vacuum

Ajax Mfg Co 1441 Chardon Rd Cleveland 17 Ohio
Consolidated Vacuum Corp 1775 Mt Read Blvd Rochester 3 N Y
Lectromelt Furnace Div McGraw-Edison Co 32nd St & Allegheny River Pittsburgh 30 Pa
Lindberg Engrg Co 2450 W Hubbard St Chicago 12 Ill
Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa
Sunbeam Equipment Corp 180 Mercer St Meadville Pa "Sunbeam Stewart"

**FUSE CLIPS—See Clips, Fuse (Industrial)**

**FUSE PANELS—See Panels, Instrument (With Instruments Assembled)**

## FUSES, Electric

Bussmann Mfg Div McGraw-Edison Co 2536 W University St St Louis 7 Mo "Buss" "Buss Fustats" "Fusetrons"
Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y
Littlefuse Inc 1865 Miner St Des Plaines Ill
Monarch Electric Corp 118 E 1st St Jamestown N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Reynolds Mfg Co 1419 Alamo National Bldg San Antonio 5 Tex "Remco"
Royal Electric Corp 95 Grand Ave Pawtucket R I
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y
Trico Fuse Mfg Co 2948 N Fifth St Milwaukee 12 Wis
Ware Fuse Corp 4406 W Lake St Chicago Ill "Hi-Lag" "One-Time" "W-B"

**GAGE BLOCKS—See Blocks, Gage**

**GAGES, AIR PRESSURE—See Gages, Cylinder Compression; also Gages, Steam and Air**

## GAGES, Cylinder

**(See also Micrometers)**

Ames Co B C 12 Ames St Waltham 54 Mass
Federal Products Corp 1144 Eddy St Providence 1 R I
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo "Centromatic"
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Standard Gage Co Poughkeepsie N Y
Starrett Co L S 1 Crescent St Athol Mass
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Zim Mfg Co 2850 W Fulton St Chicago 12 Ill

## GAGES, Cylinder Compression

Acme Air Appliance Co 205 Newman St Hackensack N J
Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip"
Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill "Auto Test Compress-Aid"
Bacharach Industrial Instrument Co 200 N Braddock Ave Pittsburgh 8 Pa (Diesel engine)
Cornwell Quality Tools Co Mogadore Ohio
Doyle Electro Products Co 725 Bond Ave NE Grand Rapids 2 Mich "Compressometer"
DuMont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Electric Autolite Co Toledo 1 Ohio
Fisher Products Corp A R 21-21 44th Drive Long Island City 1 N Y "MoTest" (Recording)
G M Co Mfg Inc 13-08 43rd Ave Long Island City N Y
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Hastings Mfg Co N Hanover St Hastings Mich
Kennedy Service Tools Co 976 Evans Ave Akron 5 Ohio
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate-Maker"
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Mack Products Co 15 Putnam St Winthrop Mass
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia O
National Machine & Tool Co 4077 Page Ave Jackson Mich
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac"
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
United States Gauge Div of American Machine & Metals Inc Clymer Ave Sellersville Pa
Weidenhoff Corp Algona Iowa
Wood Co Frank N 344 W Main St Waukesha Wis

## GAGES, Cylindrical

Do All Co 254 N Laurel Ave Des Plaines Ill
Federal Products Corp 1144 Eddy St Providence 1 R I
Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn "HW"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Republic Gage Co 2228 Fenkell Ave Detroit 38 Mich
Standard Gage Co Poughkeepsie N Y
Standard Thread Gage Co 26538 W Seven Mile Rd Detroit 19 Mich

## GAGES, Depth

Ames Co B C 12 Ames St Waltham 54 Mass
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Central Tool Co 456 Wellington Ave Cranston 10 R I
Davis Gage & Engrg Co A G 21435 Dequindre Rd Hazel Park Mich
Do All Co 254 N Laurel Ave Des Plaines Ill
Federal Products Corp 1144 Eddy St Providence 1 R I
Hanlo Gage Co 16150 Hubbell Ave Detroit 35 Mich
Keystone Reamer & Tool Co Millersburg Pa
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Millers Falls Co 57 Wells St Greenfield Mass
Mueller Laboratory & Gages Co 1052 N Allen Ave Pasadena Calif
Rite-O Tool & Gage Co 321 W Ten Mile Rd Hazel Park Mich
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Standard Gage Co Poughkeepsie N Y
Starrett Co L S 1 Crescent St Athol Mass
Union Tool Co 48 E River St Orange Mass

## GAGES, Dial

Ames Co B C 12 Ames St Waltham 54 Mass
Boice Gages Inc Hyde Park N Y
Brown & Sharpe Mfg Co 235 Promenade St Providence R I "Bestest"
Federal Products Corp 1144 Eddy St Providence R I
Hanlo Gage Co 18415 Weaver Ave Detroit 28 Mich
Lincoln Park Industries Inc 1719 Ferris Ave Lincoln Park 25 Mich (Snap)
Nilsson Gage Products Inc Boise Rd Hyde Park N Y "Nilco"
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Standard Gage Co Poughkeepsie N Y
Starrett Co L S 1 Crescent St Athol Mass
Waldes Kohinoor Inc 47-16 Austel Pl Long Island City 1 N Y "Truarc"

## GAGES, Drill and Wire

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Starrett Co 1-165 Crescent St Athol Mass

## GAGES, Engine Vacuum

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip"
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich "Motor Peaker"
DuMont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Electric Auto-Lite Co Toledo 1 Ohio
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Hastings Mfg Co N Hanover St Hastings Mich
Kennedy Service Tools Co 976 Evans Ave Akron 5 Ohio
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio
National Machine & Tool Co 4077 Page Ave Jackson Mich
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac"
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Syracuse Gauge Co 113 S Midler Ave Syracuse 6 N Y
United States Gauge Div of American Machine & Metals Inc Clymer Ave Sellersville Pa
Weidenhoff Corp Algona Iowa

## GAGES, Gasoline, Auto (Dash Type)

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Electric)**
Electric Autolite Co Toledo 1 Ohio
**KING-SEELEY Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S Telegage"**
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill (Electric)

## GAGES, Gasoline, Auto (Tank Type)

Boston Auto Gage Co 70 West St Pittsfield Mass "Triumph"
Electric Autolite Co Toledo 1 Ohio
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y

## GAGES, Height

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I "Hite-Icator"
Cleveland Instrument Co 6220 E Schaaf Rd Cleveland 31 Ohio "Indi-Ac"
Federal Products Corp 1144 Eddy St Providence 1 R I
Merz Engineering Co 200 S Harding St Indianapolis 7 Ind (Electronic)
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Starrett Co 1-165 Crescent St Athol Mass

## GAGES, Inspection or Manufacturing

Ames B C 12 Ames St Waltham 54 Mass
Comtor Co 87 Rumford Ave Waltham Mass
Federal Products Corp 1144 Eddy St Providence 1 R I
**MAYES TOOL CO 26514 W Seven Mile Rd Detroit 40 Mich "Con-Chek"**
Merz Engineering Co 200 S Harding St Indianapolis 7 Ind
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Scherr-Tumico 200 Lafayette St New York N Y "Tumico"
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Standard Gage Co Poughkeepsie N Y
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I
Van Keuren Co 176 Waltham St Watertown Mass

## GAGES, Limit

Federal Products Corp 1144 Eddy St Providence 1 R I
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "GTD"
Nilsson Gage Products Inc Boice Rd Hyde Park N Y "Nilco"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Air-O-Limit" "Electro-limit"
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Standard Gage Co Poughkeepsie N Y
Willey's Carbide Tool Co 1340 W Vernon Highway Detroit 1 Mich

## GAGES, Oil Level

Boston Auto Gage Co 70 West St Pittsfield Mass
Electric Autolite Toledo 1 Ohio
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Moeller Mfg Co 2335 Durand Ave Racine Wis "Turn-Tite"
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Trico Fuse Mfg Co 2948 N 5th St Milwaukee 12 Wis

## GAGES, Oil Pressure

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Mechanical and electric)**
Dunn Mfg Co 117 15th St Clarinda Iowa "Majestic" (For Ford cars)
Electric Autolite Co Toledo 1 Ohio
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate-Maker"
**KING - SEELEY DIV KING - SEELEY CORP 315 S First St Ann Arbor Mich "K-S Telegage"**
Murphy Mfr Inc Frank W 3131 S Sheridan St Tulsa Okla (With safety switch)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Schwarze Electric Co Church St at Payne Ave Adrian Mich "Teloil" (For Ford cars)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago Ill

Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
United States Gauge Div of American Machine & Metals Inc Clymer Ave Sellersville Pa

## GAGES, Oil Temperature Indicating

(For indictaing the temperature of the lubricating oil)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich (Mechanical and electric)**
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill

## GAGES, Plug and Ring

Bath & Co John 10 Mann St Worcester 2 Mass
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Boice Gages Inc Hyde Park N Y
Cadillac Gage Co P O Box 3806 Detroit 5 Mich
Card S W Div Union Twist Drill Co Rumford Ave Mansfield Mass (Thread and cylindrical)
Crafts Co Arthur A 603 Newbury St Kenmore Square Boston 15 Mass
Do All Co 254 N Laurel Ave Des Plaines Ill
Everard Tap & Die Corp 215 E 144th St N Y 5 N Y
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "GTD"
Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn "HW" (Thread)
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass (Thread and plain)
Lincoln Park Industries Inc 1719 Ferris Ave Lincoln Park 25 Mich
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio
Nilsson Gage Products Inc Boice Rd Hyde Park N Y "Nilco"
Pipe Machinery Co 29100 Lakeland Blvd Wickliffe Ohio
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Trilock" "Taperlock"
Republic Gage Co 2228 Fenkell Ave Detroit 38 Mich
Rite-O Tool & Gage Co 321 W Ten Mile Rd Hazel Park Mich
Schrillo Aero Tool Engrg Co 8715 Melrose Ave Los Angeles 46 Calif (Cylindrical and thread)
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Size Control Co Div American Gage & Machine Co 2500 Washington Blvd Chicago 12 Ill (Reversible plug)
Standard Gage Co Poughkeepsie N Y "Du-Bo"
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Taft-Peirce Mfg Co 32 Mechanics Ave Woonsocket R I
Van Keuren Co 176 Waltham St Watertown Mass (Plug)
West & Dodge Thread Gage Co 6 Power House St South Boston 27 Mass
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich
Woodworth Co N A 1300 E Nine Mile Road Detroit 20 Mich (Thread)

**GAGES, PRECISION—See Blocks, Gage**

## GAGES, Sight

Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill

## GAGES, Steam and Air

**AC SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Air pressure)**
Ames Co B C 12 Ames St Waltham 54 Mass (Air)
Federal Products Corp 1144 Eddy St Providence 1 R I (Air dimensional)
Freeland Gauge Co 9940 Freeland Ave Detroit 27 Mich (Air)
Lincoln Engrg Co 4010 Goodfellow Blvd St St Louis 20 Mo (Air)
Standard Gage Co Poughkeepsie Pa (Air)
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill (Air)
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I "CompAirator" "CompUtair" (Air)
United States Gauge Div. of American Machine & Metals Inc Clymer Ave Sellersville Pa
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis (Air for testing air brakes)

## GAGES, Surface

Ames Co B C 12 Ames St Waltham 54 Mass
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Millers Falls Co 57 Wells St Greenfield Mass
Rite-O Tool & Gage Co 321 W Ten Mile Rd Hazel Park Mich
Standard Gage Co Poughkeepsie N Y
Starrett Co L S 1 Crescent St Athol Mass

**GAGES, TANK — See Gages, Gasoline, Auto (Tank Type); also Gages, Gasoline, Auto (Dash Type)**

## GAGES, Thickness or Feeler

Ames Co B C 12 Ames St Waltham 54 Mass
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Central Tool Co 456 Wellington Ave Cranston 10 R I
Cornwell Quality Tools Co Mogadore Ohio
D'Nomlart Inc 100 Maple St Ashburnham Mass "Almond"
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Federal Products Corp 1144 Eddy St Providence R I (Dial indicator)
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"
Kastar Inc 200 Lincoln Ave New York 54 N Y "Akuret" Precision"
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate Maker"
Keystone Reamer & Tool Co Millersburg Pa
Klopp Engrg Inc 35551 Schoolcraft St Livonia Mich "Master Tool"
Lincoln Park Industries Inc 1719 Ferris Ave Lincoln Park 25 Mich
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Millers Falls Co 57 Wells St Greenfield Mass
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio
National Machine & Tool Co 4077 Page Ave Jackson Mich
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
P & C Hand Forged Tool Co Box 5926 Milwaukie Ore
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif
Quality Tools Corp Railroad St New Wilmington Pa
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Starrett Co L S 1 Crescent St Athol Mass (Also feeler stock)
Tacony File & Hardware Co 2814 N Fourth St Philadelphia 33 Pa "Ideal"
Union Tool Co 48 E River St Orange Mass
Van Keuren Co 176 Waltham St Watertown Mass
Wilde Tool Co Hiawatha Kans
Williams & Co J H 400 Vulcan St Buffalo 7 N Y
Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich

## GAGES, Thread

Bath & Co John 10 Mann St Worcester 2 Mass
Besly-Wells Corp 111 W Monroe St Chicago 3 Ill
Boice Gages Inc Hyde Park N Y
Do All Co 254 N Laurel Ave Des Plaines Ill
Everard Tap & Die Corp 215 E 144th St N Y 51 N Y
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich**
Federal Products Corp 1144 Eddy St Providence R I
Hanson - Whitney Co 169 Bartholomew Ave Hartford 2 Conn "HW"
Keystone Reamer & Tool Co Millersburg Pa
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Pipe Machinery Co 29100 Lakeland Blvd Wickliffe Ohio
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Republic Gage Co 2228 Fenkell Ave Detroit 38 Mich "Republic" "Titan" "V-Nide"
Rite-O Tool & Gage Co 321 W Ten Mile Rd Hazel Park Mich
Sheffield Corp 721 Springfield St Dayton Ohio
Size Control Co Div American Gage & Machine Co 2500 Washington Blvd Chicago 12 Ill (Reversible also wires)
Starrett Co L S 1-165 Crescent St Athol Mass
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I "Rotochek"
Union Tool Co 48 E River St Orange Mass
Van Keuren Co 176 Waltham St Watertown Mass (Wires)
West & Dodge Thread Gage Co 6 Power House St South Boston 27 Mass

**GAGES, TOOMAKERS' — See Instruments, Precision Measuring for Toolrooms**

## GAGES, Torque

Sturtevant Co P A Addison Ill
Waters Mfg Inc Boston Post Rd Wayland Mass

**GAGES, VACUUM — See Gages, Engine Vacuum**

## GAGES, Valve Clearance

Cedar Rapids Engrg Co 902 N 17th St Cedar Ranids Ia "Kwik-Way"
Clayborne Mfg Co 429 N Main St Monticello Ind
National Machine & Tool Co 4077 Page Ave Jackson Mich
P & G Mfg Co 5 N Mason St Portland 17 Ore "P & G Valve-Gapper"
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn

## GAGES, Vernier Height

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Lufkin Rule Co 1730 Hess Ave Saginaw Mich
Starrett Co 1-165 Crescent St Athol Mass

## GAGES, Water Temperature Indicating

(For attachment to radiator cap or dash to show temperature of cooling water)

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Fline 2 Mich (Mechanical and electric)
Electric Autolite Co Toledo 1 Ohio
**KING-SEELEY DIV King-Seeley Corp 315 S First St Ann Arbor Mich "K-S Telegage"**
Murphy Mfr Inc Frank W 3131 S Sheridan St Tulsa Okla (With safety switch)
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
United States Gauge Div of American Machine & Metals Inc Clymer Ave Sellersville Pa

**GAGES, WIRE—See Gages, Drill and Wire**

**GALVANIZING MACHINES — See Machines, Galvanizing**

## GAS, Acetylene (In Cylinders or Tanks)

(For acetylene welding)

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco" "Pureco"**
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
General Dynamics Corp Liquid Carbonic Div 135 S La Salle St Chicago 3 Ill (Cylinders)
Linde Co 270 Park Ave New York 17 N Y "Prest-O-Lite" (Cylinders)
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG" (Cylinders)

## GAS, Hydrogen (In Cylinders or Tanks)

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio
General Dynamics Corp Liquid Carbonic Div 135 S La Salle St Chicago 3 Ill (Cylinders)
Linde Co 270 Park Ave New York 17 N Y
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG" (Cylinders)

## GAS, Oxygen (In Cylinders or Tanks)

(For oxy-acetylene welding)

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco"
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio
General Dynamics Corp Liquid Carbonic Div 135 S La Salle St Chicago 3 Ill (Cylinders)
Linde Co 270 Park Ave New York 17 N Y
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG" (Cylinders)

**GAS FURNACES—See Furnaces, Gas**

**GASKET CUTTERS—See Cutters, Washer and Gasket**

**GASKET MAKING PASTE—See Paste, Gasket Making**

## GASKETS, Asbestos

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
**ARMSTRONG CORK CO Industrial Div 7011 Imperial Ave Lancaster Pa "Accopac" (Also rubber-asbestos)**
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn "Aubeston"**
Beaverite Products Inc Beaver Falls N Y
Burgess Leather Co A E Brigham Hill Rd Grafton Mass
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Superbestos"
Cleveland Gasket & Mfg Co 1610 W 116th St Cleveland 2 Ohio
Cooper Mfg Co 411 S First Ave Marshalltown Iowa "Cooperbes"
Darcoid Co 145 Sixth Ave New York 13 N Y "Dominion"
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Farnam Co F D 4940 Flournoy St Chicago 44 Ill "Kaobestos"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Wirepak"
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y**
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo
Greene Tweed & Co North Wales Pa "Palmetto"
Johns-Manville 22 E 40th St New York 16 N Y "J-M"
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia Pa
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Blvd Norfolk 5 Va
Raybestos-Manhattan Inc General Asbestos & Rubber Div North Charleston S C
Raybestos-Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Raybestos-Manhattan Inc Plastic Products Div Manheim Pa "R/M" (Asbestos and Teflon)
Rhopac Inc 3425 Cleveland St Skokie Ill
Rogers Corp Rogers Conn "Duroid"
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
Vellumoid Co 54 Rockdale St Worcester 6 Mass "Velbestos" "Wirebestos" (Wire woven)
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Asbestopac" "Victopac" (Asbestos-synthetic rubber)**
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

**GASKETS, COMPOSITION—See Paste, Gasket Making**

## GASKETS, Copper

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Cleveland Gasket & Mfg Co 1610 W 116th St Cleveland 2 Ohio
Fitzgerald Mfg Co 691 Main St Torrington Conn
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
Vellumoid Co 54 Rockdale St Worcester 6 Mass "Coppermoid"
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill**

## GASKETS, Copper-Asbestos

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
Garlock Packing Co 402 Main St Palmyra N Y
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich "McKim'
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG. & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill ("Victor"; "Victopac" Asbestos - copper - rubber "Victocork" cork-fiber-rubber)**

## GASKETS, Cork

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
**ARMSTRONG CORK CO Industrial Div 7011 Imperial Ave Lancaster Pa (Cork and rubber composition)**
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Durocork" "Supercork"
Chicago Cork Works Co 6001 Gross Point Rd Niles Ill
Cleveland Gasket & Mfg Co 1602 W 116th St Cleveland 2 Ohio
Cooper Mfg Co 411 S First Ave Marshalltown Iowa
Cranz Co J M 2671 Main St Buffalo 14 N Y
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro" "Carrocork" "Felcoid"
**FITZGERALD MFG CO 691 Main St Torrington Conn "Fitz-Cork"**
**GARLOCK INC 402 Main St Palmyra N Y**
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Ave Norfolk 5 Va
Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J "Jointite"
Rhopac Inc 3425 Cleveland St Skokie Ill
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sutherland Leather & Felt Co 743 Beaubien St Detroit 26 Mich
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victocork" (Cork-fibre-rubber; "Asbestocork" cork-rubber)**
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis
Wolverine Fabricating & Mfg Co 2638 Princess Ave Inkster Mich "Hy-Cork" "Neo-Cork" "Rub-Cork"

## GASKETS, Cylinder Head

**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee" "Twin-Type Steelbestos"**
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victocor"**

## GASKETS, Felt

American Felt Co 25 Glenville Rd Glenville Conn "Afco" "Vistex"
Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"
Continental Felt Co 22 W 15 St N Y 11 N Y
Cranz Co J M 2671 Main St Buffalo 14 N Y

## GASKETS, Fibrous or Fibre

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
**ARMSTRONG CORK CO Industrial Div 7011 Imperial Ave Lancaster Pa "Accopac"**
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn "Algco"**
Beaverite Products Inc Beaver Falls N Y
Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del
Burgess Leather Co A E Brigham Hill Rd Grafton Mass
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Super-Pak"
Circle Z RFD No 2 Pomfret Center Conn
Cleveland Gasket & Mfg Co 1602 W 116th St Cleveland 2 Ohio
Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
Cooper Mfg Co 411 S First Ave Marshalltown Iowa "Gaskoid" "Korkite"
Cranz Co J M 2671 Main St Buffalo 14 N Y
**DETROIT GASKET & MFG Co 12640 Burt Rd Detroit 23 Mich "DeLoid" "Korkoid" "Springoid" "Dee-Ge"**
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Farnam Co F D 4940 Flournoy St Chicago 44 Ill "Packitite" "Shurpak"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Felcoid" "Karropak"
**FITZGERALD MFG CO 691 Main St Torrington Conn "Fitz-Rite"**
**GARLOCK INC 402 Main St Palmyra N Y**
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Latex Fiber Industries Inc Beaver Falls N Y
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Blvd Norfolk 5 Va "M & S"
Presstite-Keystone Engrg Products Co 3900 Chouteau St St Louis 10 Mo
Rogers Corp Rogers Conn "Duroid"
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Taylor Fibre Co Norristown 49 Pa (Fibre)
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
Vellumoid Co 54 Rockdale St Worcester 6 Mass "Velbuna" "Vellumoid" "Vellutex"
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victorite" "Ferropac"; "Victolex" (Fiber-rubber; "Victoplate" asbestos-synthetic rubber)**
Wilmington Fibre Specialty Co New Castle Del
Wisconsin Gasket & Mfg Co 8724A N Granville Rd Granville Wis
Wolverine Fabricating & Mfg Co 2638 Princess Ave Inkster Mich "Vulkol" (Synthetic rubber coated)

## GASKETS, Flexible Metallic

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Steelbestos" "Twin-Type Steelbestos" "Dee-Gee"**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill**
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

**GASKETS, HARD FIBRE—See Fibre, Hard**

## GASKETS, Lead and Lead Alloy

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Cleveland Gasket & Mfg Co 1610 W 116th St Cleveland 2 Ohio
Division Lead Co 7742 W 61st Pl Summit Ill "Divco"
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio (Lead)
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Superior Wrought Washer 1951 W 90th St Cleveland 2 Ohio (Lead)
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 5 Ill**
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

## GASKETS, Leather

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**

Backstay Welt Co Oak & Howard Sts Union City Ind
Burgess Leather Co A E Brigham Hill Rd Grafton Mass
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill "Reliance"
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y**
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Vim"
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Krug Co North St Barnum Court Danbury Conn
Marsh Co Charles W 32 Hudson St Muskegon Mich
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sutherland Leather & Felt Co 743 Beaubien St Detroit 26 Mich
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
Warren Belting Co 356 Franklin St Worcester 4 Mass
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

## GASKETS, Paper

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Automotive Products Div Crotty Corp 35 E Chicago Ave Quincy Mich "YankeePak"
Beaverite Products Inc Beaver Falls N Y
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Super-Paper"
Chemical Products Co King Philip Rd East Providence R I "Chem-o-sol"
Circle Z RFD No 2 Pomfret Center Conn
Cleveland Gasket & Mfg Co 1610 W 116th St Cleveland 2 Ohio
Cooper Mfg Co 411 S First Ave Marshalltown Iowa
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Farnam Co F D 4940 Flournoy St Chicago 44 Ill (Treated)
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
**FITZGERALD MFG CO 691 Main St Torrington Conn "Fitz-Rite"**
**GARLOCK INC 402 Main St Palmyra N Y**
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo
Johns-Manville 22 E 40th St New York 16 N Y "J-M"
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Blvd Norfolk 5 Va "M & S"
Rhopac Inc 3425 Cleveland St Skokie Ill
Rogers Corp Goodyear Conn "Duroid"
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
Vellumoid Co 54 Rockdale St Worcester 6 Mass
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victor" "Victorite"**
Wilmington Fibre Specialty Co New Castle Del "Fyberoid"
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis
Wolverine Fabricating & Mfg Co 2638 Princess Ave Inkster Mich "Lo-Tork" (Synthetic rubber impregnated)

## GASKETS, Rubber

**FELT PRODUCTS MFG CO 7450 N McCormick Blvd Skokie Ill "Fel-Co-Prene"**
**GOSHEN RUBBER CO Goshen Ind**
Mundet Cord Corp 7101 Tonnelle Ave North Bergen N J (Synthetic)
Neff-Perkins Co 33 Stage Ave Painesville Ohio

**GASKETS, SOLDER—See Gaskets, Lead and Lead Alloy**

## GASKETS, Steel-Asbestos

Cooper Mfg Co 411 S First Ave Marshalltown Iowa "Ferrobes"
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Steelbestos" "Dee-Gee"**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
**FITZGERALD MFG CO 691 Main St Torrington Conn**
Garlock Packing Co 402 Main St Palmyra N Y "Guardian"
Johns-Manville 22 E 40th St N Y 16 N Y "Goetze"
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sterling Automotive Mfg Co Centex Industrial Park Elk Grove Ill "Stamco"
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago Ill "Corbestos" "Victorcor"**
Wisconsin Gasket & Mfg Co 8724 Granville Rd Granville Wis

## GASKETS, Synthetic Material

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill
Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Acushnet Process Co Rubber Div 754 Belleville Ave (Box 916) New Bedford Mass
Armstrong Cork Co Industrial Div Lancaster Pa (Cork-rubber)
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich (Rubber)
Baldwin Rubber Co 366 S Blvd E Pontiac Mich
Beaverite Products Inc Beaver Falls N Y
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn (Silicone)
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "Sirvon"**
Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane"
Cranz Co J M 2671 Main St Buffalo 14 N Y
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee" (Rubber)**
Farnam Co F D 4940 Flournoy St Chicago 44 Ill "Kaopak"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa
**GARLOCK INC 402 Main St Palmyra N Y (Teflon O-rings)**
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo (Rubber and fiberglass)
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
International Packing Corp Lake St Bristol N H (Rubber)
Johnson Rubber Co Middlefield Ohio
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mitchell & Smith Div Sheller Mfg Corp 8900 Hampton Blvd Norfolk 5 Va (Rubber)
Polymer Corp 2120 Fairmont Ave Reading Pa "Polypenco" (Nylon and Teflon)
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Rogers Corp Rogers Conn "Duroid"
**STALWART RUBBER CO 222 Northfield Rd Bedford Ohio**
Tri-Point Plastics Inc 175 I U Willets Rd Albertson L I N Y (Teflon)
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victolene" "Victoprene"**
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

**GASOLINE FILTERS — See Filters, Gasoline (Auto)**
**GASOLINE STRAINERS—See Strainers, Gasoline**
**GEAR BOXES—See Boxes, Gear**
**GEAR CUTTING MACHINES—See Machines, Gear Cutting**
**GEAR HOBBING MACHINES—See Machines, Gear Hobbing**
**GEAR HOBS—See Hobs, Gear**
**GEAR LUBRICANTS—See Lubricants, Gear**

## GEAR MATERIAL, Laminated Phenolic

**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Celoron"**
General Electric Co Chemical & Metallurgical Div Laminated Products Dept Coshocton Ohio "Textolite"
Taylor Fibre Co Norristown 49 Pa
Wilmington Fibre Specialty Co New Castle Del "Ohmold"

**GEAR SHAVING MACHINES—See Machines, Gear Shaving**
**GEAR SHIFT CONTROLS — See Controls, Gear Shift (For Transmissions)**
**GEAR SHIFTERS—See Shifters, Gear**
**GEAR TESTING INSTRUMENTS—See Instruments, Gear Testing**
**GEAR TESTING MACHINES—See Machines, Testing (Gear)**
**GEAR TOOTH CHAMFERING MACHINES—See Machines, Gear Tooth Chamfering and Finishing**
**GEAR TOOTH GRINDING MACHINES—See Machines, Grinding (Gear Tooth)**
**GEARS, DIFFERENTIAL — See Differentials, Auto; also Gears and Pinions, Rear Axle**
**GEARS, FIBRE—See Gears and Pinions, Non-Metallic**

## GEARS, Flywheel Ring

Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
**EATON MFG CO Automotive Gear Div S Eighth & O Sts Richmond Ind "Double Diamond"**
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Springfield Mfg Co Bechtle Ave & Columbia St Springfield Ohio "Excelsior"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## GEARS, Landing (Trailer)

Austin Trailer Equipment Co 1148 W Western Ave Muskegon Mich
Binkley Co Warrenton Mo
Boyertown Auto Body Works Inc Third & Walnut Sts Boyertown Pa
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich
Highway Trailer Co 405 E Fulton St Edgerton Wis
Holland Hitch Co 430 W 18th St Holland Mich
Homan & Co 511 Reading Rd Reading Cincinnati 15 Ohio
Spencer-Safford Loadcraft Inc Augusta Kans

**GEARS, RAWHIDE—See Gears and Pinions, Non-Metallic**

## GEARS, Running (Trailer)

Fayette Mfg Co Box 8 Fayette Ohio (For mobile homes)
Highway Trailer Co 405 E Fulton St Edgerton Wis
Kelly Ryan Equipment Co Blair Nebr
Prior Products Inc 4828 Racell St Dallas Tex
United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Caravan"

**GEARS, SPEEDOMETER — See Gears, and Pinions, Speedometer**

## GEARS, Steering (Manual)

**(Complete steering gear units)**

**GEMMER MFG CO Div of Ross Gear & Co 6400 Mt Elliott Ave Detroit 11 Mich**
**ROSS GEAR & TOOL CO 800 Heath St Lafayette Ind "Cam & Lever"**
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich "Safety"

## GEARS, Steering (Power)

Bendix Products Div Bendix Corp South Bend 20 Ind
**ROSS GEAR & TOOL CO 800 Heath St Lafayette Ind**
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich "Safety"
**SHEPPARD CO R H 101 Philadelphia St Hanover Pa (Hydraulic)**

## GEARS, Steering (Power Units Only)

Ainsworth Mfg Corp 2200 Franklin St Detroit 7 Mich
Behlen Mfg Co Columbus Nebr (For farm tractors and motor graders)
**BENDIX PRODUCTS Div Bendix Corp South Bend 20 Ind (Hydraulic linkage type)**
**GARRISON MFG CO 4609 E Shella St East Los Angeles 22 Calif (Hydraulic linkage type for trucks and tractors)**
**GEMMER MFG CO Div of Ross Gear & Tool Co 6400 Mt Elliott Ave Detroit 11 Mich "Gemmer Hydraguide" (Hydraulic)**
**MONROE AUTO EQUIPMENT CO 1426 E First St Monroe Mich (Hydraulic linkage type)**
**ROSS GEAR & TOOL CO 800 Heath St Lafayette Ind "Ross Hydrapower" (Hydraulic linkage type)**
**SAGINAW STEERING GEAR Div General Motors Corp 3900 Holland Rd Saginaw Mich "Safety"**
Vickers Inc Mobile Hydraulics Div Administrative & Engrg Center Detroit 32 Mich (Hydraulic)
Yetter Mfg Co Colchester Ill (For farm tractors)

## GEARS, Timing (Metallic and Non-Metallic)

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Aluminum with bonded on steel hubs semi-finished)
Bangor Plastics Inc Bangor Mich
Cloyes Gear & Products Inc 17214 Roseland Rd N E Cleveland 12 Ohio
**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Celoron"**
D & B Mfg Co 2312 S Indiana Ave Chicago 16 Ill
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Electric Autolite Co Toledo 1 Ohio "Autolite"
Elgin Machine Works Inc 412 N State St Elgin Ill
Hoof Products Co 6543 S Laramie Ave Chicago 38 Ill (Metallic)
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Timing Gears Corp 2801 W Fulton St Chicago 12 Ill
Wells Inc Martin 5886 Compton Ave Los Angeles 1 Calif "Martin Wells"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

**GEARSETS—See Transmissions, Auto**

## GEARS, Transmission

(For complete units see Transmissions, Auto.)

Brad Foote Gear Works Inc 1309 S Cicero Ave Cicero 50 Ill
Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich
Cotta Transmission Co 2340 11th St Rockford Ill
Detroit Bevel Gear 834 N Seventh St Minneapolis 11 Minn (Truck and tractor)
**EATON MFG CO Automotive Gear Div S 8th & O Sts Richmond Ind "Double Diamond"**
**FAIRFIELD MFG CO State Rd No 52 South Lafayette Ind**
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power"
Ohio Gear Co 1333 E 179th St Cleveland 10 Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Warner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

## GEARS, Worm Drive (Truck)

Baush Machine Tool Co 156 Wason Ave Springfield Mass
Beaver Gear Works Inc 1025 Parmele St Rockford Ill
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
**FAIRFIELD MFG CO State Rd No 52 South Lafayette Ind**
Morse Chain Co Ithaca N Y
Ohio Forge & Machine Corp 3010 Woodhill Rd Cleveland 4 Ohio

## GEARS, and PINIONS, Non-Metallic

(Rawhide, fibre, fabric and phenolic gear cutting on contract to sample or blueprint; see also Gears, Timing, Metallic and Non-Metallic)

**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "C/R"**
**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Celoron"**
Crofoot Gear Corp Charles E 55 Central St South Easton Mass
Danielson Mfg Co Danielson Conn "Danco" (Nylon gears)
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Bakelite and fibre)
Gatke Corp 228 N La Salle St Chicago 1 Ill
Greaves Machine Tool Div of J A Fay & Egan Co 2001 Eastern Ave Cincinnati 2 Ohio
Gries Reproducer Corp, Beechwood Ave & Second St New Rochelle N Y "GRC" (Nylon)
L M Gear Co 23120 Gratiot Ave East Detroit Mich
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del
Ohio Gear Co 1333 E 179th St Cleveland 10 Ohio
Sier-Bath Gear & Pump Co 9252 Hudson Blvd North Bergen N J
Timing Gears Corp 2801 W Fulton St Chicago 12 Ill
Wilmington Fibre Specialty Co New Castle Del "Wilmington Fibre" "Ohmold"

## GEARS and PINIONS, Rear Axle

(For complete units—see Differentials, Auto)

Clark Equipment Co Transmission Div 1300 Falahee Rd Jackson Mich
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
**FAIRFIELD MFG CO State Rd No 52 South Lafayette Ind**
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Saco-Lowell Automotive Div Saco-Lowell Shops Box 111 Saco Maine
Warner Automotive Div Borg-Warner Corp S Wayne St Auburn Ind

## GEARS and PINIONS, Speedometer

**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Celoron"**
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill

**GENERATOR PARTS AND ATTACHMENTS —See Belts, Auto (Fan, Water Pump, Generator, etc.); Brushes; Coils, Field; Couplings; Cutouts, Reverse Current; Parts, Generator; also Regulators, Generator Current & Voltage (Auto)**

## GENERATORS, Electric (Auto)

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass "American Bosch Volt-O-Matic"
American Generator & Armature Co 6100 W Grand Ave Chicago 39 Ill (Battery charging)
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Electric Autolite Co Toledo 1 Ohio "Autolite"
General Armature & Mfg Co Box 370 Lock Haven Pa
Lane & Beane 2934 Arunah Ave Baltimore 16 Md (Auxiliary)
Leece-Neville Co 1374 E 51st St Cleveland Ohio "L-N" (Bus and truck)
Tung-Sol Electric Inc 1 Summer Ave Newark 4 N J

**GENERATORS, PLATING — See Machines, Plating**

**GLASS, BULLET-PROOF—See Glass, Safety**

## GLASS, Safety

Auto Glass Mfg Co 8701 Grinnell Ave Detroit 13 Mich "AGM"
Glass Products Inc 9 W Park Way Pittsburgh 12 Pa "Supratest" "SupraKoolvue"
Globe Auto Glass Co 2501 S Dearborn St Chicago 16 Ill "GMC"
Libbey-Owens-Ford Glass Co 811 Madison Ave Toledo 3 Ohio "E-Z-Eye" "LOF" "Tuf-Flex"
Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa "Duolite" "Duplate" "Herculite" "Solex"
Protecto Safety Glass Co 82-04 Cooper Ave Brooklyn 27 N Y (Also bullet-resisting)
Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa (Also bullet-resisting)
Shatterproof Glass Corp 4815 Cabot Ave Detroit 10 Mich "Shat-R-Proof"

**GLASS BEVELING AND GRINDING MACHINES—See Machines, Glass Beveling and Grinding**

## GLASSES, Safety (Eye)

**BAUSCH & LOMB OPTICAL CO 14161 Bausch St Rochester 2 N Y**

**GLAZING COMPOUNDS — See Compounds, Glazing**

## GOGGLES, Mechanics' and Welders'

American Optical Co Safety Products Div Mechanic St Southbridge Mass
**BAUSCH & LOMB OPTICAL CO 14161 Bausch St Rochester 2 N Y (Chemical workers)**
Boyer-Campbell Div White Sewing Machine Co 6540 St Antoine St Detroit 2 Mich
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio (Welders)
Chicago Eye Shield Co 2727 W Roscoe St Chicago 18 Ill "Cesco"
Dockson Co C H 3829 Wabash Ave Detroit 8 Mich
General Scientific Equipment Co 7516 Limekiln Pike Philadelphia 50 Pa "GS"
Glendale Optical Co 600 W Merrick Rd Valley Stream N Y "Glensite" (Welders')
Linde Co 270 Park Ave New York 17 N Y "Oxweld" (Welders')
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa "M-S-A" (Welders')
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill (Welders')
Willson Products Div Ray-O-Vac Co Second & Washington Sts Reading Pa ("Cover All"; "Chip-Weld" "Welders'; "Feater-Spec" "Mono-Goggle" mechanics')

## GOVERNORS, Engine (Auto and Truck)

Electric Autolite Co Toledo 1 Ohio
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich
Hoof Products Co 6543 S Laramie Ave Chicago 38 Ill (Velocity hydraulic and mechanical)
**KING-SEELEY Div King-Seeley Corp 315 S First St Ann Arbor Mich "Handy" "K-S"**
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich (Combination governor and distributor)
Marquette Div Curtiss-Wright Corp 1145 Galewood Dr Cleveland 10 Ohio "Co-Pilot"
Minnesota Automotive Inc 1101 N Front St Mankato Minn "Key-Matic"
Monarch Governor Co 2800 Tyler Rd Willow Run Mich
Novi Governor Div Continental Motors Corp 25460 Novi Rd Novi Mich
**PERFECT CIRCLE CORP 552 S Washington St Hagerstown Ind "Speedostat"**
Pierce Governor Co 1625 Ohio Ave Anderson Ind (Farm tractor)
Safety Speed Control Co 7800 N E Fourth Court Miami 38 Fla (For trucks buses and taxicabs)
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Woodward Governor Co 5001 N 2nd St Rockford Ill (Truck and bus)
**ZENITH CARBURETOR Div of Bendix Corp 696 Hart Ave Detroit 14 Mich (Also "Zenith Gov-U-Retor" combination carburetor and governor)**

## GOVERNORS, Engine (Industrial)

Novi Governor Div Continental Motors Corp 25460 Novi Rd Novi Mich
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill (Overspeed)

## GOVERNORS, Road Speed (Auto, Truck and Bus)

Safety Speed Control Co 7800 N E Fourth Court Miami 38 Fla

## GRAPHITE, Colloidal

**ACHESON COLLOIDS CO 1925 Washington Ave Port Huron Mich "Oildag" "Aquadag" "Castordag" "dag Dispersions" "Glydag" "Prodag" "Emralon"**

Grafo Colloids Corn Grafo Bldg 310 Wilkes Place Sharon Pa ("Diegraf" "Grafo" "Moldgraf" in oil; "Hydro-Graf" "Grafolux" in water)
Kant Rust Products Corp Rahway N J "Co-Lo"
Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio
Superior Graphite Co 1531 First National Bank Bldg Chicago 3 Ill "Superflake" "Lucra-Lub"

## GRAPHITE, Lubricating

Acheson Colloids Co 1925 Washington Ave Port Huron Mich "Glydag" "Oildag" "Dag Dispersions" "Aquadag" "Castordag"
Boyle-Midway Inc 22 E 40th St New York N Y "Kant Rust"
Busch & Co A G 6138 Northwest Hwy Chicago 31 Ill "Slick-Spray"
Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J "Dixon" "Graphokote"
Hill & Griffith Co 1262 State St Cincinnati 4 Ohio
Panef Mfg Co 116 E Walnut St Milwaukee 1 Wis "Lub-A-Spray" "Graph-A-Cator" "Lub-A-Graph"
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Blaco"
Superior Graphite Co 1531 First National Bank Bldg Chicago 3 Ill "Motorflake" "Superflake"
United States Graphite Co 1621 Holland Ave Saginaw Mich "Mexican"

**GRAPHITE PAINTS—See Paints, Graphite**

## GREASE

Amalie Div L Sonneborn Sons Inc Franklin Pa
American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass
American Oil Co 555 Fifth Ave New York 1 N Y "Amoco"
Battenfeld Grease & Oil Corp 3148 Roanoke Rd Kansas City 8 Mo "Ultra Lube"
Champlin Oil & Refining Co Box 9365 Fort Worth Texas
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich "Cycleweld"
Cities Service Oil Co (Pa) 60 Wall Tower New York 5 N Y "Trojan"
Climax Molybdenum Co 500 Fifth Ave New York 36 N Y "Molysulfide"
Continental Oil Co Texas National Bk Bldg 1300 Main St Houston Tex "Conoco"
D-X Sunray Oil Co Box 381 Tulsa 2 Okla
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
Delta Oil Products Corp 6263 Teutonia Ave Milwaukee 9 Wis
Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J (Graphited)
**DOW CORNING CORP Midland Mich (Silicone)**
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St N Y 19 N Y "Esso" "Estan" "Fibrax" "Nebula E P"
Fiske Bros Refining Lubriplate Div Co 129 Lockwood St Newark 5 N J "Lubriplate"
Gulf Oil Corp P O Box 2140 Houston 1 Tex "Gulf" "Gulfcrown"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Cosmolubric" "Vital E P" "Sta-Put" (Cup and gear)
Imperial Oil & Grease Co 6505 Wilshire Blvd Los Angeles 48 Calif "Molub-Alloy"
International Lubricant Corp Southport Jefferson Parish La "Inlucite" "International"
Kendall Refining Co 77 N Kendall Ave Bradford Pa "Kenlube"
Kerns Co L R 2657 E 95th St Chicago 17 Ill "Mor-Film"
Kerr-McGee Oil Industries Inc Kerr-McGee Bldg Oklahoma City 3 Okla
King Graphite Products Inc 21949 S Telegraph Rd Trenton Mich "KGP"
Moly Motor Products Corp 314 Scholes St Brooklyn 6 N Y (Transmission etc)
National Refining Co Standard Bldg Cleveland 1 Ohio "Enarco"
Pate Oil Co 3460 W Leeds Pl Milwaukee 15 Wis "Multiglide"
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa "Premium Penn Drake"
Pennzoil Co of Calif 1630 W Olympic Blvd Los Angeles 15 Calif
Pennzoil Div South Penn Oil Co Drake Bldg Oil City Pa
Permatex Co 300 Broadway Huntington Station N Y (Graphite)
Phillips Petroleum Co Bartlesville Okla "Philube"
Pure Oil Co 35 E Wacker Drive Chicago 1 Ill "Purelube"
Quaker State Oil Refining Corp Quaker State Bldg Oil City Pa
Shell Oil Co 50 W 50th St New York 20 N Y "Retinax" "Darina" "X-100"
Siloo Inc 9 E 45th St N Y 17 N Y
Sinclair Refining Co 600 Fifth Ave New York 20 N Y
Socony Mobil Oil Co 150 E 42nd St New York N Y "Mobilgrease" "Mobil" (Sole distributors Mobil Oil Co 150 E 42nd St N Y 17 N Y)
Standard Oil Co of California Western Operations Inc 225 Bush St San Francisco 20 Calif "RPM"
**STANDARD OIL CO (Indiana) 910 Michigan Ave Chicago 80 Ill "Rykon" "Superia" "Calumet" "Standard" "Stanobar" "Stanolith"**
**SUN OIL CO 1608 Walnut St Philadelphia 3 Pa "Sunoco" "Sun"**
Valvoline Oil Co Div of Ashland Oil & Refining Corp Third Ave & Sixth St Freedom Pa
White & Bagley Co 100 Foster St Worcester 8 Mass "Oilzum"

**GREASE ADDITIVES—See Additives, Grease**
**GREASE CUPS—See Cups, Oil and Grease**
**GREASE GUNS, HAND—See Lubricators, Hand**
**GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE—See Lubricators, Portable, High Pressure**
**GREASE AND OIL ABSORBENTS (FLOOR)—See Absorbents, Oil and Grease (Floor)**
**GREASE RETAINERS—See Rings & Seals, Oil & Grease Retaining**

## GRILLES, Radiator

Cutler Metal Products Co 1025 Line St Camden N J
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Dee-Gee"
Doehler Die-Casting Co 386 Fourth Ave New York N Y
Electric Autolite Co Toledo 1 Ohio "Autolite"
Electro Mechanical Products Co 32700 Ford Rd Garden City Mich
Excel Corp 1120 N Main St Elkhart Ind "XL"
Mirro Aluminum Co Manitowoc Wis
Saginaw Industries Co 2119 S Jefferson Ave Saginaw Mich (For Ford and Chevrolet cars)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Anodized aluminum)
Zenite Metal Corp P O Box 939 Blytheville Ark

## GRINDERS

**See following heads:**
**Grinders**
**Machines, Flexible Shaft (Portable Electric)**
**Machines, Glass Beveling and Grinding**
**Machines, Grinding**
**Machines, Grinding & Polishing**
**Machines, Grinding (Tool)**
**Machines, Honing**
**Machines, Superfinishing**

## GRINDERS, Bench (Electric)

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Atlas Press Co 1842 N Pitcher St Kalamazoo Mich
Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio
Doerr Electric Corp 510 N Fourth Ave Cedarburg Wis
Dumore Co 1300 17th St Racine Wis
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio "Hisey"
Millers Falls Co Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis
Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y
Prosser & Son Thomas Felter Bldg Tenafly N J
Richards Co J A 903 N Pitcher St Kalamazoo Mich (Diemaker's)
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Skil Corp 5033 Elston Ave Chicago Ill "Skil-Grinder"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor Speed Grinders"
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Stanley Electric Tool Div of Stanley Works 480 Myrtle St New Britain Conn
Thor Power Tool Co 175 State St Aurora Ill
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Valley Electric Corp 4221 Forest Park Blvd St Louis Mo
Walker Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman-Neven" (Carbide)
Wilson Inc K R Arcade N Y "KRW"
Wissota Mfg Co 1301 S 3rd St Minneapolis Minn

## GRINDERS, Die (Portable Electric)

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York 17 N Y "Hicycle" "Super Cycle" "Universal"**
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio

## GRINDERS, Die (Portable Pneumatic)

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex
Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## GRINDERS, Portable Electric

**(See also Machines, Flexible Shaft Portable Electric)**

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "Universal" "Hycycle" "Super Cycle"**
Chicago Wheel & Mfg Co 1101 W Monroe St Chicago 7 Ill
Dremel Mfg Co 2420 18th St Racine Wis "Moto-Tool"
Dumore Co 1300 17th Racine Wis
Lee Co K O Congress at First Ave S E Aberdeen S D
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5316 W State St Milwaukee Wis
Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y
Precise Products Corp 3715 Blue Ribbon Rd Racine Wis
Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohio
Skil Corp 5033 Elston Ave Chicago Ill "Skil Grinder"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor SpeedGrinders"
Stanley Electric Tools Div of Stanley Works 480 Myrtle St New Britain Conn
**THOR POWER TOOL CO 175 State St Aurora Ill**
United States Electrical Tool Co 1050 Findlay St Cincinnati 14 Ohio

## GRINDERS, Portable Pneumatic

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Aro Equipment Corp Bryan Ohio
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP"**
**CLECO AIR TOOLS Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex**
Gardner-Denver Co S Front St Quincy Ill
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Madison-Kipp Corp 201 Waubesa St Madison Wis "Kip"
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
Onsrud Machine Works Inc 7720 N Lehigh Ave Niles 48 Ill
Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohio
Skil Corp 5033 Elston Ave Chicago Ill "Skil-Grinder"
**THOR POWER TOOL CO 175 State St Aurora Ill**

## GRINDERS, Portable Pneumatic — continued

Watervliet Tool Co 413 N Pearl St Albany 1 N Y
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

**GRINDERS, Valve Seat (Production Type)—See Machines, Grinding (Valve Seat)**

**GRINDING EQUIPMENT**

**See following heads:**
**Centers, Lathe and Grinder**
**Compounds, Grinding**
**Discs, Abrasive Grinding**
**Machines, Flexible Shaft (Portable Electric)**
**Machines, Grinding (Abrasive Belt)**
**Spindles, Drilling and Grinding Machine**
**Wheels, Grinding**

**GRIPS, PEDAL—See Pads, Pedal**

## GRIT or SHOT

Globe Steel Abrasive Co 238 First Ave Mansfield Ohio "Globe" (Chilled iron; "Malleabrasive" heat treated)
Metals Disintegrating Co Box 290 Elizabeth B N J "Harrison" (Cast iron)
Pangborn Corp 200 Pangborn Blvd Hagerstown Md
Pittsburgh Crushed Steel Co 4839 Harrison St Pittsburgh 1 Pa "Angular" (Steel)
Sheet Shot Producers Inc 49th & Harrison Sts Pittsburgh 1 Pa "Tru-Steel" (Steel)
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich
Wheelabrator Corp 1466 S Byrkit St Mishawaka Ind "Steeletts" "Wheelabrator" (Steel)

## GROMMETS, Rubber

Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Clevealnd 12 Ohio "Tuftex"
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn
Continental Rubber Works 1946 Liberty St Erie Pa
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Garlock Inc 402 Main St Palmyra N Y
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goshen Rubber Co 609 E Iowa St Goshen Ind
Johnson Rubber Co Middlefield Ohio
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
**WESTERN RUBBER CO 620 E Douglas St Goshen 3 Ind**

**GROOVING MACHINES, OIL—See Machines, Oil Grooving**

## GUARDS, Bumper

Brown-Lipe-Chapin Div of General Motors Corp Town Line Rd Syracuse N Y
Campbell Co A S 161 Prescott St East Boston 28 Mass
Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio
Gem Mfg Co 2535 South State St Chicago 16 Ill
Rheem Automotive Co 601 S Placentia Ave Fullerton Calif

## GUARDS, Fender Splash

Ace Rubber Products Inc 100 Beech St Akron Ohio
Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex"
Better Monkey Grip Co 5320 Harry Hines Blvd Dallas 22 Tex "Monkey Grip" (Truck; sole distributors Monkey Grip Sales Co 5320 Harry Hines Blvd Dallas 22 Tex)
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Buxbaum Products Co 520 McKinley Ave Canton 2 Ohio "Akro"
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Dayton Industrial Products Co 2001 N Janice Ave Melrose Park Ill "Thoro-Gard"
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex" (Truck)
Fargo Rubber Corp 137 E 58th St Los Angeles 11 Calif (Truck)
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
Globe Rubber Products Co 3333 N Lawrence St Philadelphia 40 Pa
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Gross Mfg Co 1711 California St Monrovia Calif
Lee Rubber & Tire Corp Conshohocken Pa
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio
Tingley Rubber Corp 903 Ross St Rahway N J "COT" "Quadrant" "Tingley" "Vise-Grip"

## GUARDS, Radiator Grille, Fender and Trunk

American Forging & Socket Co P O Box 210 Pontiac Mich (Radiator grille)
Bustin Steel Products Inc Dover N J (Truck radiator)
Calco Steel Products Co 23-29 New England Ave Dorchester 24 Mass (Grille for trucks)
Champion Sheet Metal Co 2 Squires St Cortland N Y (Radiator grille to order)
Gichner Iron Works Inc Fred S 1214 24th St NW Washington 7 D C
Helms Industrial Development Co 220 S Kirk St West Lafayette Ohio
Hutchinson Co 735 Ricov St Shreveport La "Redi-Fit" (Grille for trucks)
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
Youngstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio (Truck and tractor)

## GUIDES, Valve (Engine)

Aero Mfg & Machinery Co 2724 Ninth St Muskegon Heights Mich
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Beckett Bronze Co 20th & S Walnut Sts Muncie Ind (Bronze)
Burd Piston Ring Co Box 567 Eau Claire Wis
**EATON MFG CO Saginaw Div 1000 Rust St Saginaw Mich**
Elgin Machine Works Inc 412 N State St Elgin Ill
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind
Hub City Iron Co 218 First Ave S W Aberdeen S D
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC"
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Standard Automotive Parts Co 660 Nims St Muskegon Mich
Thompson Products Valve Div Thompson-Ramo-Wooldridge Inc 1455 E 185th St Cleveland 10 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"
Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich (For Ford cars)

**GUNS—See Blast Cleaning Apparatus; Lubricators; Nozzles, Air; also Sprayers**

**GUN METAL FINISH—See Treating, Heat**

**HACK SAWS, FRAMES AND BLADES—See Blades, Saw (Hack); Machines, Sawing (Power Hack)**

**HAIR FELT FLOOR PADS—See Pads, Floor (Felt, Jute, etc.)**

## HAIR, Upholstery

**(See also Moss, Upholstery; also Felt, Upholstery)**

Armour Alliance Industries 16123 Armour St N E Alliance Ohio "Hairflex" (Curled and rubberized)
Burkart Mfg Co F 4900 N Second St St Louis 7 Mo
Goodrich Sponge Products B F Howe Ave Shelton Conn "Texlite"
Gordon Bros Inc Pierce & Orthodox Sts (Frankford) Philadelphia Pa (Also rubberized curled hair)
Woll & Co F P Church & Tacony Sts (Frankford) Philadelphia 24 Pa "Vitacurld" Curled; "Wollastic" rubberized curled)

**HAMMERS, DROP—See Hammers Power (Belt and Motor Driven)**

## HAMMERS, Pneumatic

Chambersburg Engineering Co Derbyshire St Chambersburg Pa "Ceco-Drop" "Forming-Drop" "Impacter"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**
Erie Foundry Co 1253 W 12th St Erie Pa
Gardner-Denver Co S Front St Quincy Ill
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Master Power Corp 6225 Cochran Rd Solon 39 Ohio (Portable)
Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill
Modern Mfg Co 680 Davisville Rd Willow Grove Pa "Little Power House" (Portable)
Pneumatic Drop Hammer Co 200 Adams St Braintree 84 Mass
Superior Pneumatic & Mfg Inc 4758 Warner Rd Cleveland 25 Ohio
Thor Power Tool Co 175 State St Aurora Ill
United Engrg & Fdry Co Wilmington Plant P O Box 1108 Wilmington 99 Del "Nazel"
Watervliet Tool Co 413 N Pearl St Albany 1 N Y "Watco"
Williams White & Co 100 Eighth St Moline Ill

## HAMMERS, Portable Electric

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis
Modern Mfg Co 680 Davisville Rd Willow Grove Pa "Modern Slugger"
Stanley Electric Tool Div of Stanley Works 480 Myrtle St New Britain Conn
Syntron Co 495 Lexington Ave Homer City Pa
Thor Power Tool Co 175 State St Aurora Ill "Thor-Nado"

## HAMMERS, Power (Belt and Motor Driven )

Billings & Spencer Co 1 Laurel St Hartford 1 Conn
Bradley & Sons Div Harsco Corp C C 37 Huntington St Cortland N Y (Forging)
Chambersburg Engineering Co Derbyshire St Chambersburg Pa
Erie Foundry Co 1253 W 12th St Erie Pa
Yoder Co 5553 Walworth Ave Cleveland 2 Ohio

**HAMMERS, RIVETING—See Machines, Riveting (Metal)**

## HAMMERS, Steam

Chambersburg Engineering Co Derbyshire St Chambersburg Pa
Erie Foundry Co 1253 W 12th St Erie Pa

## HANDLES, Car Door

Decker Co Richard M 919 N Michigan Ave Chicago Ill (Truck and house trailer)
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio (Truck bus and trailer)
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (Commercial body)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 N Y "Cleveland"

## HANGERS, Bearing (Driveshaft)

Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich

## HANGERS, Step (Pressed Steel)

**(Pressed steel step or running board hangers or brackets; for forged hangers—see Forgings)**

Brewer-Titchener Corp 115 Pt Watson St Cortland N Y
Transue & Williams Steel Forging Corp 562 Ely St Alliance Ohio

**HARD FACING ALLOYS—See Alloys, Hard Facing**

**HARD RUBBER—See Rubber, Hard**

**HARDENING COMPOUNDS—See Compounds, Case Hardening**

**HARDENING, METAL—See Treating, Heat**

**HARDNESS TESTERS—See Machines, Testing (Metal)**

## HARDWARE, Automobile and Truck Body

**(For bus hardware—see Fittings, Bus; see also Forgings)**

Adams & Westlake Co 1019 N Michigan St Elkhart Ind (Auto truck and bus)
American Forging & Socket Co P O Box 210 Pontiac Mich (Hood locks etc)
Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich (Also funeral car bus taxicab etc )
Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill (Including locks, latches and hinges)
Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky
Bordner Mfg Co 101 S Louis Ave Freeport Ill (Refrigerator truck body)
Bowen Products Corp Auburn N Y
Cinch Mfg Co 1026 S Homan St Chicago 24 Ill
Croname Inc 6201 Howard St Chicago 48 Ill (Decorative trim)
Decker Co Richard M 919 N Michigan Ave Chicago Ill (Door latches for trucks and house trailers)
Dura Co Dura Div 4500 Detroit Ave Toledo 12 Ohio
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio (Truck body)
Electric Autolite Co Toledo 1 Ohio "Auto lite"
Ferro Stamping Co 1367 Franklin St Detroit 7 Mich
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (Commercial body and bus)
Hartwell Aviation Supply Co 9035 Venice Blvd Los Angeles 34 Calif (Flush latches fasteners and handles)
Kason Hardware Corp 71 Wallabout St Brooklyn 11 N Y (Truck body)
Kneuer Tail Board Co 45 Sea Girt Ave Manasquan N J (Spaceless tailboard hardware)
Miner Inc W H 209 S La Salle St Chicago 4 Ill (Door fasteners for truck and trailer bodies )
Polar Hardware Mfg Co 3822 Lawrence Ave Chicago 25 Ill (For refrigerated trucks and trailers)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Protectoseal Co 1920 S Western Ave Chicago 8 Ill (Fuel tank fittings)
Rockford Metal Products Inc 716 Cedar St Rockford Ill
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio (Fender braces)
Soss Mfg Co 21777 Hoover Rd Warren Mich
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Stanley Works (Pressed Metal Div) 195 Lake St New Britain Conn
Stant Mfg Co 1620 Columbia St Connersville Ind
Tompkins H S 188 Chambers St New York 7 N Y
Wagner Mfg Co 122 W First St Cedar Falls Iowa (Truck body irons brackets and hinges)
Yale & Towne Mfg Co 200 Henry St Stamford Conn

## HATS and CAPS, Safety

**BAUSCH & LOMB OPTICAL CO 14161 Bausch St Rochester 2 N Y**

Boyer-Campbell Div White Sewing Machine Co 6540 St Antoine St Detroit 2 Mich

**HEADLIGHT BEAM CONTROLS (Automatic)—See Controls, Headlamp Beam (Automatic)**

**HEADLIGHT GASKETS (Cork)—See Gaskets, Cork**

**HEADLIGHTS—See Lamps, Head**

**HEAD LINING CLOTH—See Linings, Head**

**HEAD LINING RETAINERS—See Retainers, Headlining**

## HEADS, Boring

Chandler Tool Co 514 Ohio Ave Muncie Ind "Duplex" (Combination boring and facing)
Ferry Machine Co P O Box 299 Kent Ohio
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Greenlee Bros & Co 1702 Mason Ave Rockford Ill

**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass "Heald Red Head"**

Ingersoll Milling Machine Co Rockford Ill
Lovejoy Tool Co 133 Main St Springfield Vt
McCrosky Tool Corp S Main St Meadville Pa
Maxwell Industries Inc 493 E Fifth St Ashtabula Ohio "E-Z" "Mastur"
Moline Tool Co 102 20th St Moline Ill "Hole Hog"
Mummert-Dixon Co Philadelphia & Gay Sts Hanover Pa "BulDog"
O K Tool Co Milford N H
Oneida Machine Tool Corp 2600 E Walnut St Oneida N Y "Casler"
Precision Tool & Mfg Co of Illinois 1301 S Laramie Ave Cicero 50 Ill "Deka-Bore"
Rickert-Shafer Co 613 W 11th St Erie Pa "R-S"

## HEADS, Cylinder

Almquist Engr Co Milford Pa
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa" (Aluminum alloy)
Continental Motors Corp Muskegon 82 Mich
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Steelbestos"
Edelbrock Equipment Co 4921 W Jefferson Blvd Los Anglees 16 Calif
Permold Co 820 W Liberty St Medina Ohio (Aluminum)
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich.

## HEADS, Dividing

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Kempsmith Machine Co 1819 S 71st St West Allis 14 Wis

**L W CHUCK CO 24 S St Clair St Toledo 4 Ohio**

Taft-Peirce Mfg Co 32 Mechanic St Woonsocket R I
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke"
Vinco Corp 9111 Schaefer Highway Detroit 28 Mich

## HEADS, Drilling

Allen Co Chas G Barre Mass
Aro Equipment Corp Bryan Ohio
Barnes Corp John S 301 S Water St Rockford Ill (Hydraulic)

**BARNES DRILL CO 826 Chestnut St Rockford Ill "Barnesdril"**

Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Bellows-Valvair Div of International Basic Economy Corp 222 W Market St Akron 9 Ohio
Burke Machine Tool Co Brotherton Rd Cincinnati 27 Ohio
Commander Mfg Co 4225 W Kinzie St Chicago 24 Ill (Adjustable)
Drillmation Co 6500 E 11 Mile Rd Center Line Mich

**DRILLUNIT INC 3267 Wight St Detroit 7 Mich (Hydraulic)**

Dumore Co 1300 17th St Racine Wis
Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y (Multiple spindle)
Govro-Nelson Co 1931 Antoninette St Detroit 8 Mich
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Hause Machines Inc 809 S Pleasant St Montpelier Ohio
Jarvis Corp Middletown Conn (Multiple spindle)
Kingsbury Machine Tool Corp Laurel St Keene N H (Automatic)
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Leland-Gifford Co Box 989 Worcester Mass
Michigan Special Machine Co 11449 Timken Ave Warren Mich
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
Root Co B M Prospect & Sherman Sts York Pa
United States Drill Head Co 616 Burns St Cincinnati 4 Oh.o (Multiple spindle)
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Winslow Products Engrg Corp 47 St Joseph St Arcadia Calif "Spacematic" "Spacemite'
Wisconsin Drill Head Co 4987 N 12th St Butler Wis
Zagar Tool Inc 2400 Lakeland Blvd Cleveland 23 Ohio (Gearless)

## HEADS, Tapping

Burgmaster Corp Small Tool Div 13226 S Figueroa St Gardena Calif
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Drillunit Inc 3267 Wight St. Detroit 7 Mich "TapUnit"
Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y (Multiple spindle)
Govro-Nelson Co 1931 Antoinette St Detroit 8 Mich
Hause Machines Inc 809 S Pleasant St Montpelier Ohio
Jarvis Corp Middletown Conn (Multiple spindle)
Kingsbury Machine Tool Corp Laurel St Keene N H (Automatic)
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Michigan Special Machine Co 11449 Timken Ave Warren Mich
Procunier Safety Chuck Co 18 S Clinton St Chicago 6 Ill
Snow Mfg Co 435 Eastern Ave Bellwood Ill
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich
Wisconsin Drill Head Co 4987 N 12th St Butler Wis

## HEADS, Thread Rolling

National Acme Co 170 E 131st St Cleveland 8 Ohio "Acme-Felte" (Self-opening)

**HEAT EXCHANGERS—See Exchangers, Heat**

**HEAT INDICATING GAGES, Water—See Gages, Water Temperature Indicating**

**HEAT RESISTANT FINISHES (Metal)—See Finishes, Heat Resistant (Metal)**

**HEAT TRANSFER EQUIPMENT — See Exchangers, Heat; also intercoolers; also Heaters, Factory, etc.; also Radiators, Engine Cooling; also Regulators, Oil Temperature**

**HEAT TREATING—See Treating, Heat**

**HEAT TREATING COMPOUNDS—See Compounds, Heat Treating**

**HEAT TREATING FURNACES—See Furnaces, Heat Treating**

**HEAT TREATING MACHINES—See Machines, Heat Treating**

**HEATER EQUIPMENT—See Motors, Electric Automotive Use (FHP); also Parts and Fittings, Heater; also Switches, Heater; also Thermostats, Heater**

## HEATERS, Aircraft

Young Radiator Co 709 S Marquette St Racine Wis

## HEATERS, Automobile, Truck, Bus and Trailer

Arvin Industries Inc 13th St & Big Four RR Columbus Ind (Hot water and hot air)
Bishop & Babcock Mfg Co 12046 E 55th St Cleveland 4 Ohio (Hot water)
Cargo Guard Co P O Box 1977 Thompson's Point Portland 2 Maine (LP-Gas for truck or trailer cargo)
Chicago Mfg Co 411 N Trumbull Ave Chicago Ill (Hot water)

**EATON MFG CO Heater Div E 65th St & Central Ave Cleveland 4 Ohio (Hot water)**

**EVANS PRODUCTS CO 13101 Eckles Rd Plymouth Mich (Hot water for trucks and buses also heating and ventilating systems for trucks and buses)**

**G & O MFG CO 138 Winchester Ave New Haven 8 Conn (To order)**

HaDees Heater Products Huppower Div Hupp Corp 7450 Melville Ave Detroit 17 Mich
Hanlon & Wilson Co 321 Pennwood Ave Pittsburgh 21 Pa "Steely" (For Volkswagen cars)
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y (Hot water)
Hunter Mfg Co 30525 Aurora Rd Solon Ohio (Gasoline burning)
Industrial Engrg Corp Vermillion S D "Load-Warmer" (Cargo)
Kysor Heater Co 1100 W Wright St Cadillac Mich (Hot water for truck and bus)
Laharco Industries Inc 721 Second Ave N Minneapolis 5 Minn "Temp-R-izer" (Cargo)
Perfection Div of Hupp Corp Mobile Products Dept 1135 Ivanhoe Rd Cleveland 10 Ohio

## HEATERS, Automobile, Truck, Bus and Trailer—continued

Preco Inc 6300 E Slauson Ave Los Angeles 24 Calif (Truck cargo)
Schofield Inc E L 216 Mill St Rockford Ill (Hot water)
Stewart-Warner Corp South Wind Div 1514 Drover St Indianapolis 7 Ind "South Wind" "Minit-Heat" (Gasoline burning, for cars and trucks)
Thermo King Corp 314 W 90th St Minneapolis 20 Minn (Truck and trailer)
Vapor Heating Corp 80 E Jackson Blvd Chicago 14 Ill (Steam for trucks or trailers)
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis (Cab)**

## HEATERS, Engine Pre-Heating (Permanent Type)

(Permanently installed in cooling system)

Five Star Mfg Co Box 149 Clarksdale Miss "Kat's" "Freeman" (Electrical)
Laharco Industries Inc 721 Second Ave N Minneapolis 5 Minn "Temp-R-izer"
Perfection Div of Hupp Corp Mobile Products Dept 1135 Ivanhoe Rd Cleveland 10 Ohio (Oil and gasoline burning)
Phillips Mfg Co 8200 Grand Ave S Minneapolis 20 Minn "Flash" "Zero-Start" (Headbolt dipstick and external tank types)
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio "Schauer Kar Start"
Stewart-Warner Corp South Wind Div 1514 Drover St Indianapolis 7 Ind "South Wind"
Young Radiator Co 709 S Marquette St Racine Wis

## HEATERS, Factory, Etc.

Aeroil Products Co 69 Wesley St South Hackensack N J
Airtherm Mfg Co 700 S Spring Ave St Louis 10 Mo (Unit steam warm air gas and oil)
American Standard Industrial Div Detroit 32 Mich
Brubaker Mfg Co Broad St Landisville Pa "Keystone"
Buffalo Forge Co 490 Broadway Buffalo 4 N Y (Unit)
Carrier Corp Carrier Parkway Syracuse 1 N Y (Unit)
Clarage Fan Co North & Porter Sts Kalamazoo Mich
Day & Night Mfg Co 855 Anaheim-Puente Rd La Puente Calif (Gas unit)
Dravo Corp Engrg Works Div Neville Island Pittsburgh 25 Pa "Counter-flo" (Gas or oil or combination)
Electronics Inc E on Highway 50 Vermillion S D "Electro-Magic"
Ewing Mfg Co 2545 N W 10th St Oklahoma City Okla "Little Demon" (Gas)
Fedders Corp 57 Tonawanda St Buffalo 7 N Y (Unit)
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" (Electric)
Grinnell Co., 260 W Exchange St Providence 1 R I "Thermolier" (Unit)
Ilg Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 Ill (Unit)
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich (Steam or hot water unit)
Modine Mfg Co 1500 De Koven Ave Racine Wis (Unit)
Murray Mfg Co D J 1002 Third St Wausau Wis "Grid"
Overhead Heaters Inc 1612 Book Bldg Detroit 26 Mich "Shafconaire" (Oil and gas unit)
Perfection Div of Hupp Corp Mobile Products Dept 1135 Ivanhoe Rd Cleveland 10 Ohio (Oil)
Reznor Mfg Co 402 Jane St Mercer Pa (Gas unit)
Schofield Inc E L 2230 7th Ave Rockford Ill (Hot water)
Stow Mfg Co 443 State St Binghamton N Y (Portable space)
Trane Co 206 Cameron Ave La Crosse Wis
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill "Waikiki"
Vogt Bros Mfg Co 1402 W Main St Louisville 3 Ky (Portable)
Wanson Corp Charles & Juniata Sts Lewistown Pa
Westinghouse Electric Corp Sturtevant Div 15 Damon St Hyde Park Boston 36 Mass
Wing Mfg Co L J 57 Vreeland Mills Rd Linden N J "Wing" "Wing Utility" "Wing Featherweight" "Wing Revolving" (Unit)
Young Radiator Co 709 S Marquette St Racine Wis (Unit)

## HEATERS, Flywheel Gear

Greaves Machine Tool Div of J A Fay & Egan Co 2001 Eastern Ave Cincinnati 2 Ohio

## HEATERS, Induction

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio**
Allis-Chalmers Mfg Co Milwaukee 1 Wis
Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio
Erdco Engrg Corp Addison Ill
Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y
**LINDBERG ENGRG Co 2450 W Hubbard St Chicago 12 Ill "Lindberg-Fisher"**
Ohio Crankshaft Co Tocco Div 4620 E 71st St Cleveland Ohio
Reeve Electronics Inc 605 W Lake St Chicago 6 Ill (Generators)
Welduction Corp 19400 W Eight Mile Rd Southfield Mich
**WESTINGHOUSE ELECTRIC CORP X-Ray & Industrial Electronics Div 2519 Wilkens Ave Baltimore 3 Md**

## HEATERS, Paint (Hot Spray)

Binks Mfg Co 3120 Carroll Ave Chicago 12 Ill
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Nordson Corp Jackson St Amherst Ohio "Bede"
Spee-Flo Mfg Corp 6614 Harrisburg St Houston 11 Tex

**HEATING LAMPS—See Lamps, Drying, Baking and Heating**
**HEIGHT GAGES—See Gages, Height**
**HELIX TESTING MACHINES—See Machines, Helix Testing**

## HELMETS, Sand Blasting and Welding

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y (Welding)**
American Optical Co Safety Products Div Mechanic St Southbridge Mass
Boyer-Campbell Co 6540 St Antoine St Detroit 2 Mich
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave., Cleveland 14 Ohio (Welding)
Chicago Eye Shield Co 2727 W Roscoe St Chicago 18 Ill "Cesco"
Dockson Co C H 3839 Wabash Ave Detroit 8 Mich
Hobart Bros Co Canal Locks Sq Troy 1 Ohio (Welding)
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio (Welding)
Marquettee Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn (Welding)
Mine Safety Appliances Co 201 [illegible]idock Ave Pittsburgh 8 Pa "M-S-A" (Welding)
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 1 Ill "NCG" (Welding)
Pangborn Corp 200 Pangborn Blvd Hagerstown Md (Sand blasting)
Reumelin Mfg Co 3860 N Palmer St Milwaukee Wis (Sand blasting)
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio "Puair" (Sand blasting)
Willson Products Inc Second & Washington Sts Reading Pa (Welding)

## HINGES, Door (Auto)

American Forging & Socket Co P O Box 210 Pontiac Mich
Betts Machine Co 1800 Pennsylvania Ave W Warren Pa (Tank Truck)
Dura Corp Motor State Products Div 103 S River St Ypsilanti Mich
Eberhard Mfg Co Div Eastern Malleable Iron Co 2723 Tennyson Rd Cleveland 4 Ohio (Truck)
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (Commercial body)
Kason Hardware Corp 71 Wallabout St Brooklyn 11 N Y (Truck and trailer body)
Miner Inc W H 209 S La Salle St Chicago 4 Ill (For truck and trailer bodies)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland" (Truck)
Soss Mfg Co 21777 Hoover Rd Warren Mich
Stanley Works (Pressed Metal Div) 195 Lake St New Britain Conn

## HINGES, Hood

American Forging & Socket Co P O Box 210 Pontiac Mich
Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill
Ferro Stamping Co 1367 Franklin St Detroit 7 Mich
Hancock Mfg Co 225 N Horton St Jackson Mich
Motor Products Corp 11801 Mack Ave Detroit Mich "Detroit Diamond"
Soss Mfg Co 21777 Hoover Rd Warren Mich

**HITCHES, TRAILER—See Couplers, Trailer**
**HOB GRINDING MACHINES—See Machines, Grinding (Hob)**
**HOBBING MACHINES—See Machines, Gear Hobbing**

## HOBS, Gear

Barber-Colman Co 1300 Rock St Rockford Ill
Hanson-Whitney Machine Co 169 Bartholomew Ave Hartford 2 Conn
Illinois Tool Works Tool & Instrument Div. 2501 N Keller Ave Chicago Ill "Illinite"
Michigan Tool Co 7171 McNichols Rd E Detroit 12 Mich
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
National Twist Drill & Tool Co Rochester Mich
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand"
Star Cutter Co 34500 Grand River Ave Farmington Mich
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass

## HOBS, Thread Milling

Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Continental"
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich

**HOISTS, CHAIN—See Blocks or Hoists, Chain**

## HOISTS, Electric

(See also Blocks or Hoists, Chain)

American Engineering Co Wheatsheaf Lane & Sepviva St Philadelphia 37 Pa "Lo-Hed"
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Chester Hoist Div National Screw & Mfg Co Lisbon Ohio
Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Fremont Ave Tonawanda N Y "Lodestar" "Meteor"
Cleveland Crane & Engineering Co 5866 E 283rd St Wickliffe Ohio "Cleveland Tramrail"
Coffing Hoist Div Duff-Norton Co 800 Walter St Danville Ill "Quik-Lift"
Conco Engineering Works Inc Mendota Ill
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich "Detroiter" "Titan"
Electro Lift Inc 204 Sargeant Ave Clifton N J
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H"
Harrington Co Gravers Rd at Turnpike Plymouth Meeting Pa "Bearcat"
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich "Load-Lifter"
Northern Engineering Works 210 Chene St Detroit 7 Mich "Hi-Lift"
Ohio Hoist Mfg Co 321 S Beaver St Lisbon Ohio
Reading Crane & Hoist Corp 2140 Adams St Reading Pa
Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio "R & M"
Round & Son David Box 198 Cleveland 39 Ohio
Sasgen Derrick Co 3101 W Grand Ave Chicago 22 Ill
Shepard Niles Crane & Hoist Corp Montour Falls N Y
Thomas Hoist Co 20 S Hoyne Ave Chicago 12 Ill
Wright Hoist Div of American Chain & Cable Co York Pa
Yale & Town Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

**HOISTS, MONORAIL—See Cranes, Monorail**

## HOISTS, Pneumatic

Aro Equipment Corp Bryan Ohio
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP" (Portable)
Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 33 Mo
Detroit Hoist & Machine Co 8216 Morrow St Detroit 11 Mich
Gardner-Denver Co S Front St Quincy Ill
Holmes Co Ernest 2506 E 43rd St Chattanooga Tenn
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Master Power Corp 6225 Cochrane Rd Solon 39 Ohio
**THOR POWER TOOL CO 175 State St Aurora Ill**
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## HOISTS, Portable

**(See also Cranes, Portable)**

Manley Div Douglas Motors Inc 1234 N 62nd St Milwaukee 13 Wis
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich
Sasgen Derrick Co 3101 W Grand Ave Chicago 22 Ill

## HOISTS, Trailer Body

Galion Allsteel Body Co 605 S Market St Galion Ohio
Hercules Steel Products Co 500 Sherman St Galion Ohio

## HOISTS, Truck Body

**(Power and hand hoists for dumping bodies)**

Anthony Co Streator Ill "Anthony Teleramic" (Hydraulic)
Cemco Industries Inc of Galion Ohio
Challenge-Cook Bros Equipment Co 3334 San Fernando Rd Los Angeles 65 Calif
Converto Mfg Co Third & Green Sts Cambridge City Ind
Cresci & Son Inc Boulevard & Grape Sts Vineland N J
Daybrook Hydraulic Div Young Spring & Wire Corp Bowling Green Ohio "Daybrook Speedlift"
Galion Allsteel Body Co 605 S Market St Galion Ohio
Gar Wood Industries Inc Wayne Mich "Gar Wood-St Paul"
Heil Co 3000 W Montana St Milwaukee 1 Wis (Hydraulic)
Hercules Steel Products Co 500 Sherman St Galion Ohio
Ingersoll Kalamazoo Div Borg-Warner Corp 1810 N Pitcher St Kalamazoo Mich "Hinge-Haul" "Load Lugger" (For detachable container bodies)
Little Giant Products Inc 1530 N Adams St Peoria 3 Ill (Hand)
Lundell Mfg Co Cherokee Iowa (Sole distributors Collins Associates Inc 3318 Glenmore Ave Cincinnati 11 Ohio)
Manning Maxwell & Moore Inc Shaw-Box Crane & Hoist Div Park & Broadway Muskegon Mich
Marion Metal Products Co Cheney Ave Marion Ohio (Hydraulic)
Minneapolis Freeman Mfg Co 5610 W 36th St Minneapolis 16 Minn
Omaha Body & Equipment Co 3015 Taylor St Omaha 11 Nebr "Obeco"
Omaha Standard 2401 W Broadway Council Bluffs Iowa (Hydraulic)
Penn Body Div Hockensmith Corp 1946 Penn St Penn Pa
Perfection Steel Body Co S East St Galion Ohio (Hydraulic)
Portable Elevator Mfg Co 920 E Grove St Bloomington Ill "Glencoe"
Schwartz Mfg Co Lester Prairie Minn (Also ramp hoist)
Thiele & Sons Inc W J 170 Pine St Johnstown Pa (Hydraulic)
Travelodge Corp 65 N Madison St Tulsa 1 Okla
Truck Engrg Co 3200 E Pontiac St Fort Wayne 4 Ind "Aristocrat"
Weston Dump Body Co 326 W 11th St Des Moines 9 Iowa
Wisconsin Hydraulics Inc 3165 N 30th St Milwaukee 16 Wis

## HOLDERS, Electrode

Chicago Tool & Engrg Co 8383 South Chicago Ave Chicago Ill
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio "Cooltong"
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind "Nu Wrinkle Cap" "Mallory" (Resistance)
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn
Miller Electric Mfg Co 718 S Bounds St Appleton Wis.
Tolman Mfg Co 19 W Third St (South Boston) Boston 27 Mass
Tweco Products Inc Boston at Mosley Sts Wichita 1 Kan "Tweco" "Twecotong" "Tweco Hol-Grip"
US Electric Welder Corp 1258 Dorr St Toledo 7 Ohio
Wells Inc Martin 5886 Compton Ave Los Angeles 1 Calif "Rod Saver" "Suregrip" "Tong-Grip"

## HOLDERS, Tool

**(For lathe, planer, slotter and shaper)**
**(See also Tools, Lathes, Planer, Slotter and Shaper)**

Adamas Carbide Corp Kenilworth N J
Allegheny Ludlum Steel Corp Carmet Div Detroit 20 Mich "Carmet"
Apex Tool & Cutter Co 235 Canal St Shelton Conn
Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill (Lathe)
Burgmaster Corp Small Tool Div 13226 S Figueroa St Gardena Calif "Tool-flex" (Floating)
Clark Co., Robert H., 9330 Santa Monica Blvd Beverly Hills Calif
Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "H&G" (Selfcentering for automatic screw machines, turret lathes, tapping machines and drill presses)
Erickson Tool Co 34350 Solon Rd Solon Ohio (Floating)
Falcon Tool Co P O Box 4605 Detroit 34 Mich "Kwiklok"
Firth Sterling Inc 3113 Forbes Ave Pittsburgh 30 Pa
General Electric Co Metallurgical Products Dept 11777 E Eight Mile Rd Detroit 32 Mich "Carboloy"
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Globe Tools 3384 S Robertson Blvd Los Angeles 34 Calif
Graham Mfg Co 47 Bridge St East Greenwich R I (Knurl, for turret lathes)
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass
Kennametal Inc Lloyd Ave Latrobe Pa "Kendex"
Lipe Inc W C 208 S Geddes St Syracuse N Y
McCrosky Tool Corp S Main St Meadville Pa (Lathe and turret)
Maxwell Industries Inc 493 E Fifth St Ashtabula Ohio "E-Z" (For boring and facing "Uni-Max" for turning)
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Klamp-Lok"
O K Tool Co Milford N H
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill
**SEIBERT & SONS INC 1008 E 24th St Chenoa Ill "Seibert Shur Lock" (Floating)**
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Tolman Mfg Co 19 W Third St (South Boston) Boston Mass
Vascoloy-Ramet Corp 800 Market St Waukegan Ill "V-R" "Vascoloy-Ramet"
Viking Tool Co 1000 Nichols Rd Shelton Conn
Waukesha Cutting Tools Inc Midland & Pearl Sts Waukesha Wis
Weiger-Weed & Co (Div Fansteel Metallurgical Corp) 11644 Cloverdale Ave Detroit 4 Mich "W-W"
Wendt-Sonis Co Tenth & Collier Sts Hannibal Mo "W-S"
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich "Wesson-Multicut" "Huski-Cut" "TA" (Carbide)
Williams & Co J H 400 Vulcan St Buffalo 7 N Y (Lathe for turning boring cutting threading and knurling)

## HONES, Cylinder

**(See also Machines, Honing [Cylinder])**

Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill (Engine and brake)
Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"
Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo (Hydraulic and brake drum)
Hall-Toledo Inc 2931 South Ave Toledo 9 Ohio
Keystone Reamer & Tool Co Millersburg Pa
Lisle Corp 809 E Main St Clarinda Iowa
Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich "Hydrohone" "Odee-Hone" "Micromold" "Hydrobrake"
Moline Tool Co 102 20th St Moline Ill "Hole Hog"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point" (Brake)
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo

## HONES, Small Bore

**(For piston pins, brake cylinders, bushings, etc.)**

Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill
Beard Tool Co L O Andrew & Mill Sts Lancaster Pa (Hydraulic brake cylinder)
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio (Brake cylinder)
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich (Piston pin)
Keystone Reamer & Tool Co Millersburg Pa (Piston pin)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Lisle Corp 809 E Main St Clarinda Iowa (Brake cylinder)
Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain" (Brake cylinder)
Robinson Mfg Co 13th & Indiana Ave St Charles Ill
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo (Piston pin)
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo

**HONING MACHINES—See Machines, Honing**

**HOOD PARTS—See Fasteners, Hood; Hinges, Hood; also Ventilators, Hood**

## HOODS, Engine

Ansted Corp 1428 W Henry St Indianapolis 7 Ind
Champion Sheet Metal Co 2 Squires St Cortland N Y (To order)
Chicago Mfg Co 411 N Trumbull Ave Chicago Ill
Cutler Metal Products Co 1025 Line St Camden N J
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiber glass reinforced for cars and trucks)**
Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
York Corrugating Co Adams St & W Md R R York Pa (Truck)
Youngstown Kitchens Div of American-Standard 605 S Ellsworth St Salem Ohio

## HOOKS, Lifting

**MENTOR PRODUCTS INC 39805 Mentor Ave Mentor Ohio "J & J"**

## HORNS, Electric

**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind "Klaxon"**
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill
Edwards Co Norwalk Conn
Electric Autolite Co Toledo 1 Ohio "Autolite"
Jubilee Mfg Co 1929 S 20th St Omaha 9 Neb
Sparton Automotive Div of Sparton Corp Jackson Mich "Air Shell" "Hornet" "Marvel" "Su Power" "Sparton" "Tornado" "Trumpet"

## HORNS, Electric-Air

Sparton Automotive Div of Sparton Corp Jackson Mich "Tornado"

## HORNS, Pneumatic

Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio
Buell Mfg Co P O Box 206 Lyons Ill "Buell" "Buell-Strombos"
Electric Autolite Co Toledo 1 Ohio "Autolite"
Grover Products Co 1221 S Hope St Los Angeles 15 Calif
Kahlenberg Bros Co 1202 Monroe St Two Rivers Wis
Sparton Automotive Div of Sparton Corp Jackson Mich
Trico Products Co 817 Washington St Buffalo 3 N Y "Trico Clairecon"
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**
Western Products 12906 S Halldale Ave Gardena Calif "General"
Yoder Mfg Co 1823 E 17th St Little Rock Ark (Wolf whistle and bulb type)

## HORNS, Siren

**For ambulances, police and fire department apparatus)**

Federal Sign & Signal Corp 136th & Western Ave Blue Island Ill (Also combination siren and warning light, for emergency and military vehicles)

## HORNS, Vacuum Operated

Grover Products Co 1221 S Hope St Los Angeles 15 Calif
Trico Products Corp 817 Washington St Buffalo 3 N Y "Trico Clairecon"

## HOSE, Air Brake

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Aeroquip Corp 300 S East Ave Jackson Mich
American Coupling Corp 2335 Goodrich St Ferndale 20 Mich "Amcor"
Anchor Coupling Co 342 N 4th St Libertyville Ill
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass)
Crown Products Co 5722 S 77th St Ralston Neb
Dayton Industrial Products Co Div of Dayco Corp 2201 Janice Ave Melrose Park Ill
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick-Tecalemit"
Gates Rubber Co 999 S Broadway Denver 17 Colo
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Monarch"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Raybestos-Manhattan Inc Plastic Products Div Manheim Pa "R/M"
Stratoflex Inc 220 Roberts St Cut-off Fort Worth Tex
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind**

## HOSE, Air (Pneumatic Tool)

Anchor Coupling Co 342 N Fourth St Libertyville Ill
Chicago Pneumatic Tool Co 6 E 44th St New York N Y "CP"
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Arno" "Cincinnatus" "Losant"
Continental Rubber Works 1946 Liberty St Erie Pa "Liberty"
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Electric Hose & Rubber Co 12 & Dure Sts Wilmington Del
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio "Highflex"
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Conservo" "Hewitt" "Maltese Cross" & "Monarch"
Mercer Rubber Co Hamilton Square N J
Porter Co H K Thermoid Div Whitehead Rd Trenton 6 N J "Thermoid"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Condor" "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Swan Rubber Co 436 E Mansfield St Bucyrus Ohio
**SYNFLEX PRODUCTS Div Samuel Moore & Co Mantua Ohio (Self storing nylon)**
Thor Power Tool Co 175 State St Aurora Ill
United States Air Compressor Co 5300 Harvard Ave Cleveland 5 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind**

## HOSE, Air (Tire Inflating)

**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Fort Wayne Ind**

## HOSE ASSEMBLIES

Aeroquip Corp 300 S East Ave Jackson Mich (Flexible)
**FLEXONICS CORP Automotive Div 2021 S Latham St Memphis Tenn (Flexible gasoline oil hydraulic and air)**
**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill (Power Steering)**
Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio "Krimp-lok"
Reda-Turner Mfg Co 311 Page Blvd Springfield 4 Mass (Hydraulic)
Stratoflex Inc 220 Roberts St Cut-Off Ft Worth Tex
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Fort Wayne Ind

**HOSE, BOOSTER BRAKE—See Hose, Vacuum Brake**

## HOSE, Car Heater

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass)
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Continental Rubber Works 1946 Liberty St Erie Pa
Crown Products Co 5722 S 77th St Ralston Neb
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Dayton Industrial Products Co 2001 N Janice Ave Melrose Park Ill
Durkee-Atwood Co 215 Seventh St NE Minneapolis 13 Minn
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Porter Co H K Thermoid Div 200 Whitehead St Trenton 6 N J "Thermoid"
Ridbo Laboratories Inc 211 E Harrison St Danville Ill
Swan Rubber Co 436 E Mansfield St Bucyrus Ohio "Swan" "Thermaguard"
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind

## HOSE, Defroster

Acme-Hamilton Mfg Corp 115 Mead St Trenton N J
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex"
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Wiremold Co Railroad Ave Hartford 10 Conn

**HOSE, EXHAUST — See Tubing, Flexible Metallic**

## HOSE, Fire

American-La France 100 E La France St Elmira N Y "Allweather" "American La France"
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Cincinatus"
General Fire Extinguisher Corp 6801 Rising Sun Ave Philadelphia 11 Pa "General Innerflex"
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Ajax" "Hewcron" "Hewrolite" "Maltese Cross" "Monarch"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Seco Mfg Inc 4461 W Jefferson Ave Detroit 9 Mich
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Eureka"

**HOSE, FLEXIBLE METALLIC—See Tubing, Flexible Metallic**

**HOSE, FLEXIBLE SYNTHETIC RESIN — See Tubing, Synthetic Material**

## HOSE, High Pressure

Aeroquip Corp 300 S East Ave Jackson Mich
**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill "Hi-Duty" "Hytron" "Eastman"**

## HOSE, Hydraulic Brake

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Aeroquip Corp 300 S East Ave Jackson Mich
Anchor Coupling Co 342 N 4th St Libertyville Ill
Bendix Products Div Bendix Aviation Corp 401 Bendix Drive South Bend 20 Ind "Bendix B-K"
Eis Automotive Corp Middletown Conn
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex"
Excello Accessories Manufacturers Inc 81 Madison Ave Hempstead N Y
**FLEXONICS CORP Automotive Div 2021 S Latham St Memphis Tenn "Flexon"**
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Grizzly Mfg Co 700 W Caroline St Paulding Ohio
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio "Delco"
Lisle Corp Brake Div 805 E Main St Clarinda Iowa
Master Parts Div Airtex Products Inc Fairfield Ill
Motive Equipment Mfrs Inc 5253 Roosevelt Rd Chicago 50 Ill "Pilot"
Mulconroy Co 54th & Jefferson Sts Philadelphia 31 Pa
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Planet Metal Products Corp 964 Dean St Brooklyn 16 N Y
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid" (Booster)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Stratoflex Inc 220 Roberts St Cut-off Ft Worth Tex
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## HOSE, Hydraulic (Window Lifts, Folding Tops, Seats, Power Steering, etc.)

Anchor Coupling Co 342 N Front St Libertyville Ill (Power steering)
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 9 Ohio "Fawick Tecalemit"
**FLEXONICS CORP Automotive Div 2021 S Latham St Memphis Tenn "Flexon"**
**IMPERIAL-EASTMAN CORP 6300 W Howard St Chicago 48 Ill (Power steering)**
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio (Power steering)
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco" (Power steering)
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich (Power steering)
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill 'Alemite Surgepruf"
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif (Power steering)
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind**

**HOSE, OIL LINE—See Tubing, Oil and Gasoline Line**

**HOSE, POWER STEERING, See Hose, Hydraulic (Window Lifts, Folding Tops, Power Steering, etc.)**

## HOSE, Radiator

Acme-Hamilton Corp 115 Meade St Trenton N J "Acme Flexrite"
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
Badger Mfg Corp 1501 W Polk St Chicago 7 Ill (Chrome)
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Carlisle Tire & Rubber Div Carlisle Corp 621 N College St Carlisle Pa
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalic"
Crown Products Co 5722 S 77th St Ralston Neb
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard A"
Dayton Industrial Products Co 2001 Janice Ave Melrose Park Ill
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn 'Kwik-Flex" (Flexible)
Egan Mfg Co H B P O Box 1406 Muskogee Okla "Camel" (Flexible)
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex" ((Bendable)
Firestone Industrial Products Co Noblesville Ind
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio

Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Johns-Manville 22 E 40th St New York N Y "J-M"
Metal Hose & Tubing Co W Clinton St Dover N J
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper"
Ridbo Laboratories Inc 211 E Harrison St Danville Ill "V-T" (Flexible)
Snyder & Son Inc M L 1827 E York St Philadelphia 25 Pa "Snyder Standard"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## HOSE, Vacuum Brake

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Aeroquip Corp 300 S East Ave Jackson Mich
Bendix Products Div Bendix Corp South Bend 20 Ind
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass)
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalic"
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Dayton Industrial Products Co Div of Dayco Corp 2201 Janice Ave Melrose Park Ill
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Monarch" "Ajax"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind

## HOSE, Welding

(See also Cable, Welding)

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Aeroquip Corp 300 S East Ave Jackson Mich
**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y "Airco-Twin"**
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass)
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Losant"
Continental Rubber Works 1946 Liberty St Erie Pa "Liberty"
Dayton Industrial Products Co Div of Dayco Corp 2201 Janice Ave Melrose Park Ill
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn "Conservo" "Twinweld"
Linde Co 270 Park Ave New York 17 N Y "Oxweld" (Rubber)
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG"
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Smith Welding Equipment Corp 2633 4th St S E Minneapolis 14 Minn
Snyder & Son Inc M L 1827 E York St Philadelphia 25 Pa "Synder Standard"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

**HOSE COUPLINGS—See Couplings, Hose**

## HOUSINGS, Axle

American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich
Clark Equipment Co Automotive Div Buchanan 2 Mich (Rear)
Crosby Co 183 Pratt St Buffalo 5 N Y

## HOUSINGS, Engine (Fiber-Glass Reinforced)

**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio**

**HUB CAPS—See Caps, Hub**

**HUB FLANGES, PRESSED STEEL — See Flanges, Hub (Pressed Steel)**

**HUB ODOMETERS—See Meters or Odometers, Distance Recording**

**HUB SEALS—See Seals, Hub (Tractor and Trailer)**

**HUBS, STEERING GEAR—See Parts, Steering Gear**

## HUBS, Wheel

(For hub flanges—see Flanges, Hub [Pressed Steel])

Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa
Dualmatic Products Co P O Box 419 Longmont Colo (Selective drive for trucks)
Kay-Brunner Steel Products Inc 999 Meridian Ave Alhambra Cal (For truck trailers)
Kelly Mfg Co 503 Broad St Charleston 21 W Va (Locking for four-wheel drive vehicles)
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich**
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich
Shuler Axle Co 2901 S Second St Louisville 8 Ky
Watson Co H S 1316 67th St Emeryville 8 Calif "Watson Lockout" (Front free wheeling)

**HUMIDITY REGULATORS—See Regulators, Humidity**

**HYDRAULIC COUPLINGS — See Couplings, Fluid (Machinery)**

**HYDRAULIC CYLINDERS — See Cylinders, Air and Hydraulic**

**HYDRAULIC FLUID—See Fluid, Hydraulic**

**HYDRAULIC FLUID FILTERS—See Filters, Hydraulic Fluid**

**HYDRAULIC FLUID LINE TUBING — See Tubing, Hydraulic Fluid Line**

**HYDRAULIC HOSE ASSEMBLIES—See Hose Assemblies**

**HYDRAULIC MOTORS — See Motors, Hydraulic**

**HYDRAULIC OILS—See Fluid, Hydraulic**

**HYDRAULIC PUMPS—See Pumps, Hydraulic**

**HYDRAULIC VALVES—See Valves, Hydraulic**

**HYDROGEN GAS—See Gas, Hydrogen (In Cylinders and Tanks)**

**IGNITION COIL WINDINGS—See Windings, Ignition Coil**

**IGNITION RESISTORS—See Resistors, Ignition**

**IGNITION SYSTEMS, BATTERY—See Systems, Ignition (Complete)**

**IGNITION SYSTEMS, EMERGENCY — See Systems, Ignition (Emergency)**

**IMPACT WRENCHES—See Wrenches, Portable Electric; also Wrenches, Portable Pneumatic**

**IMPELLERS, WATER PUMP — See Parts, Water Pump**

**INDEX CENTERS—See Heads, Dividing**

**INDICATORS, COMBUSTION—See Analyzers, Combustion**

**INDUCTION HEATERS — See Heaters, Induction**

**INDUSTRIAL BRAKES — See Brakes, Industrial**

**INDUSTRIAL PUSHBUTTONS — See Pushbuttons, Industrial**

**INFLATORS, TIRE—See Compressors, Air**

**INITIALS, ORNAMENTAL—See Monograms, Initials and Emblems, Ornamental**

**INJECTION MOLDING PRESSES — See Presses, Injection Molding**

## INJECTION SYSTEMS, Diesel and Gasoline Engine

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass (Diesel pumps)
**CAV FUEL INJECTION EQUIPMENT Div of Lucas Electrical Services Inc 14820 Detroit Ave Cleveland 7 Ohio (Diesel imported)**
Diesel Equipment Div General Motors Corp 2100 Burlingame Ave S W Grand Rapids 2 Mich
Eclipse Machine Div Bendix Corp Elmira N Y (Electronic)
Fuelcharger Corp 8800 Grinnell Ave Detroit 13 Mich
**HARTFORD MACHINE SCREW CO P O Box 1440 Hartford 2 Conn "Roosa-Master" (Diesel)**
Marvel-Schebler Products Div Borg-Warner Corp Decatur Ill (Gasoline)
Rochester Products Div General Motors Corp 1000 Lexington Ave Rochester 3 N Y (Gasoline)
Scintilla Div Bendix Corp Sidney N Y "Bendix" (Diesel)
Simmonds Precision Products Inc 105 White Plains Rd Tarrytown N Y (Gasoline)

**INSERTS, CLUTCH—See Corks, Brake and Clutch Insert**

## INSERTS, Screw Thread

Airaterra 620 Paula Ave Glendale 1 Calif "Roylyn"
Boots Aircraft Nut Corp Newtown Turnpike Norwalk Conn "Ban-Lok"
Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J
**HELI-COIL CORP 3206 Shelter Rock Lane Danbury Conn "Heli-Coil" "Screw-Lock"**
Hi-Shear Corp 2600 W 247th St Torrance Calif
Newton Insert Co 6500 Avalon Blvd Los Angeles 3 Calif "Keenserts"
Nylok Corp 611 Industrial Ave Paramus N J
Rosan Inc 2901 W Coast Highway Newport Beach Calif
South Chester Corp Southco Div 228 Industrial Highway Lester Pa "Southco"

## INSERTS, Spring Leaf

(To eliminate interleaf friction need for oiling between leaf springs and to avoid squeaks)

**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee-Gee"**
Georgia Webbing & Tape Co Talbottom Ga
O & S Bearing & Mfg Co 777 W 8 Mile Rd Whitmore Lake Mich
World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

**INSPECTION MACHINES FOR MASS PRODUCTION OF PARTS—See Machines, X-Ray**

**INSPECTORS' TEST GAGES—See Gages, Inspection or Manufacturing**

**INSTRUMENT DIALS—See Dials, Instrument**

**INSTRUMENT PANEL LAMPS—See Lamps, Instrument Panel**

**INSTRUMENT PANELS—See Panels, Instrument**

## INSTRUMENTS, Abrasive Testing

(For grinding wheels, hones, etc.)

Atlas Electric Devices Co 4114 N Ravenswood Ave Chicago 13 Ill "Accelerotor" (For seat covers etc)
Hanchett Mfg Co 906 N State St Big Rapids Mich

## INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Synchrograph-Allen"
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Kal-Equip Co 411 Washington St Otsego Mich "Kal-Dwell"
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Simpson Electric Co 5208 W Kinzie St Chicago 14 Ill
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Snap-On Distrib-U-Scope"
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Weidenhoff Corp Algona Iowa

## INSTRUMENTS, Electrical Circuit Testing

(See also Analyzers, Engines and Electric Equipment, also Stands, Electric Test)

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip"
Arrow Armature Co 15 Fordham Rd Boston 34 Mass
Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill "Auto-Tong"
Berg-Gibson Mfg Co 817 E 17th St Kansas City 8 Mo "B & G"

## INSTRUMENTS, Electrical Circuit Testing—continued

Doyle Electro Products Co 725 Bond Ave NE Grand Rapids 2 Mich "Trouble Shooter" "Acroset" "Coilmaster"
DuMont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Exide Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Heyer Industries Inc 500 Cortland St Belleville 9 N J
Hoyt Electrical Instrument Works Inc 42 Carleton St Cambridge 42 Mass (Sole distributors Burton-Rogers Co 42 Carleton St Cambridge 42 Mass)
Ideal Industries Inc 1014 Park Ave Sycamore Ill
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill (For voltage regulators and generators armatures and field coils)
Kal-Equip Co 411 Washington St Otsego Mich "Kal-Reg" "Kal-Spark"
Kennedy Service Tools Co 976 Evans Ave Akron 5 Ohio
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Mercury Electric Co 2311 Tauromee Ave Kansas City Kans
Nemco-Speedex Mfg Co Div of GC Textron Inc 418 S Wyman St Rockford Ill "Ne-O-Life"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Simpson Electric Co 5208 W Kinzie St Chicago 44 Ill
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Silver Beauty"
Weidenhoff Corp Algona Iowa
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio
Wilson Inc K R Arcade N Y "KRW"
Wood Co Frank N 344 W Main St Waukesha Wis "Trucut" (Armature testers)

## INSTRUMENTS, Engine Testing (Factory)

(Including manographs, oscillographs, etc.)

Crosby Steam Gage & Valve Co 10 Roland St Boston 29 Mass
Photocon Research Products 421 N Altadena Dr Pasadena 8 Calif "Dynagage" (For static and dynamic pressure)

## INSTRUMENTS, Gear Testing

Fellows Gear Shaper Co 78 River St Springfield Vt

## INSTRUMENTS, Metal Testing

(See also Machines, Testing [Metal])

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "SR-4"
Brush Instrument Div of Clevite Corp 37th St & Perkins Ave Cleveland 14 Ohio
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Precise Products Co 3715 Blue River Rd Racine Wis "Sklero" (Hardness)
Steel City Testing Machines Inc 8817 Lyndon Ave Detroit 38 Mich
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex (Magnetic)

**INSTRUMENTS, OIL TESTING—See Viscosimeters**

## INSTRUMENTS, Precision Measuring, for Machine Tools

Griswold Co F T 305 W Lancaster Ave Wayne Pa "Scan-A-Scale" (Linear measuring)

## INSTRUMENTS, Precision Measuring For Production

Cleveland Instrument Co 6220 E Schaaf Rd Cleveland 31 Ohio "Par-Ac" (For dimentional gaging; "Indi-Ron" for measuring roughness)
Electro-Autosizing Machine Div Industrial Gauges Corp 1500 The Plaza West Englewood N J "Minitron" "Autopairer"
Federal Products Corp 1144 Eddy St Providence 1 R I
Merz Engineering Inc 200 S Harding St Indianapolis 7 Ind
Micrometrical Mfg Co 3621 S State St Ann Arbor Mich ("Anderometer" for ball bearings; "Waveometer" for measuring waviness of ball or roller bearing races and balls; "Profilometer" "Microcorder" for surface finish; "Proficorder" for measuring waviness or roughness and recording surface profiles)
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Sperry Products Div of Howe Sound Co 2903 Shelter Rock Rd Danbury Conn (Ultrasonic for thickness)

## INSTRUMENTS, Precision Measuring, for Tool Rooms

(See also Blocks, Gage)

Ames Co B C 12 Ames St Waltham 54 Mass
Angle Computer Co 1709 Standard Ave Glendale 1 Calif "Studler" (Angle computers)
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Cadillac Gage Co P O Box 3806 Detroit 5 Mich "Cadillac Pla-Chek"
Cleveland Instrument Co 6220 E Schaaf Rd Cleveland 31 Ohio "Indi-Ac" (For surface plate and set-ups)
DoAll Co 254 N Laurel Ave Des Plaines Ill
Electro-Autosizing Machine Div Industrial Gauges Corp 1500 The Plaza West Englewood N J "Electro-Autosizer" "Autopairer"
Federal Products Corp 1144 Eddy St Providence 1 R I "Testmaster"
Gaertner Scientific Corp 1279 Wrightwood Ave Chicago 14 Ill
Magnaflux Corp 7328 W Lawrence Ave Chicago 31 Ill "Magnaflux Sonizon" (Ultrasonic thickness measuring)
Merz Engineering Co 200 S Harding St Indianapolis 7 Ind
Millers Falls Co 57 Wells St Greenfield Mass
Moore Products Co H & Lycoming Sts Philadelphia 24 Pa (Pneumatic comparator gages)
RCA Industrial & Machine Tool Automation 12605 Arnold St Detroit 39 Mich
Richmont Inc 922 S Myrtle Ave Monrovia Calif "Chapman" (Torque calibrators for hand tools)
Scherr-Tumico 200 Lafayette St New York 12 N Y
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Size Control Co Div American Gage & Machine Co 2500 Washington Blvd Chicago 12 Ill (Micrometer testing)
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I
Van Keuren Co 176 Waltham St Watertown Mass.

## INSTRUMENTS, Rubber Testing

Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa
Shore Instrument & Mfg Co 90-35 Van Wyck Expressway Jamaica 35 N Y "Durometer" "Elastometer"

## INSTRUMENTS, Speedometer Testing

Stewart Corp F W 4311 N Ravenswood Ave Chicago Ill "Circle Ess"
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill

## INSTRUMENTS, Surface Roughness Measuring

Brush Instruments Div of Clevite Corp 37th St & Perkins Ave Cleveland 14 Ohio "Surfindicator"

## INSTRUMENTS, Timing

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip" (Neon and power)
Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill (Neon and power)
Cornwell Quality Tools Co Mogadore Ohio (Power)
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich
Du Mont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill (Neon type)
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich (Power)
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio (Power)
Heyer Industries Inc 500 Cortland St Belleville 9 N J
Kal-Equip Co 411 Washington St Otsego Mich "Kal-Lite" (Power)
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio (Neon)
National Machine & Tool Co 4077 Page Ave Jackson Mich (Neon)
Niehoff Co C E 4925 W Lawrence Ave Chicago 30 Ill (Neon and power)
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio (Neon and power)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis (Neon)
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill (Neon)
Tungsten Mfg Co 1923 E 79th St Chicago 49 Ill (Neon and power)
Weidenhoff Corp Algona Iowa (Neon and power)
Wood Co Frank N 344 W Main St Waukesha Wis (Power)

## INSTRUMENTS, Vibration Measuring

Gaynes Engrg Co 1642 W Fulton St Chicago 12 Ill
International Research & Development Corp 6150 Huntley Rd Worthington Ohio
Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa "Vibrodyne"

**INSULATING PADS — See Pads, Insulation (Heat, Cold and Sound)**

**INSULATING PAPER—See Paper, Insulating**

## INSULATION, For Electrical Parts (Liquid)

Chemical Products Corp King Philip Rd East Providence R I "Chem-o-sol" (Ignition)
**DOW CORNING CORP Midland Mich**
Ensign Products Co 3528 E 76th St Cleveland 5 Ohio
Heet Div of DeMert & Dougherty Inc 5000 W 41st St Chicago 50 Ill "Pib"
Illinois Bronze Powder Co 2015 S Clark St Chicago 16 "Illbronze" (Ignition systems)
Krylon Inc Ford & Washington Sts Norristown Pa (For ignition wiring battery terminals etc)
Plasti-Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohio (For ignition systems)
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Acra Seal" "Ignition Seal" (For ignition systems)
Reynolds Ink Inc 4500 Euclid Ave Cleveland 3 Ohio "Sherolite" (Ignition systems)
Wolfe-Kote Co 1225 N 8th St Sheboygan Wis
Zip Abrasive Co 1360 W 9 St Cleveland 13 Ohio "Shortstop" (Ignition system)

## INSULATION, Felt, Hair, Paper, Etc.

American Felt Co Glenville Conn "K" (Felt)
American Hair & Felt Co 322 Merchandise Mart Chicago Ill (Hair and felt)
American Latex Products Corp 3341 W El Segundo Blvd Hawthorne Calif "Stafoam" (Plastic foam)
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa "Armstrong" (Felt paper; "Mobil-Roll" fiberglas for trailers; "Armalite" foamed plastic)
Auburn Mfg Co Pease Ave & Stack St Middletown, Conn.
B B Chemical Co 784 Memorial Dr Cambridge 39 Mass "Boscel" (Urethane foam)
Barley-Earhart Corp Portland Mich (Felt)
Burlington Mills Inc Burlington Wis "Bur-Tex" (Plastic coated trunk lining)
Carborundum Co Buffalo Ave Niagara Falls N Y "Fiberfrax" (Fiber)
Carey Mfg Co Philip Lockland Cincinnati 15 Ohio (Felt)
**CELLUSUEDE PRODUCTS INC 501 N Madison St Rockford Ill (Flock)**
Clark-Cutler McDermott Co Fisher St Franklin Mass (Felt)
**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "C-D-F" "Vulcoid"**
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "DG"**
Dow Chemical Co Midland Mich "Styrofoam" "Pelaspan"
Flintkote Co 30 Rockefeller Plaza New York 20 NY "Syntex" (Felt)
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Plastic and hard fibre)

## INSULATION, Felt, Hair, Paper, Etc.

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "Polyseal" (Silicone rubber for motors)
Gustin-Bacon Mfg Co 210 W 10th St Kansas City 5 Mo "Ultralite" (Glass fibre for trailers and buses; "Ultrafine" glass fibre for sound absorbing; "Amberlite" organic fibre for sound absorbing; "Satinaire B" organic and synthetic fibre for sound absorbing)

Johns-Manville 22 E 40th St New York 16 N Y "Spintex" (Mineral wool)
Johns-Manville Sales Corp Industrial Insulation Div 22 E 40th St New York N Y "Microlite" "Microfine" "Transulite" (Fiber glass)
Keystone Roofing Mfg Co Franklin St & PRR York Pa "Conewago" (Paper)
Owens-Corning Fiberglas Corp National Bank Bldg Toledo 1 Ohio "Fiberglas" (Fibrous glass)
Pittsburgh Plate Glass Co Fibre Glass Div 1 Gateway Center Pittsburgh 22 Pa "Pittsburgh Superfine" (Fibre glass)
Rubatex Div Great American Industries Inc Bedford Va (Cellular rubber)
Ruberoid Co 500 Fifth Ave New York 36 N Y (Felt)
Seaman Products Div of Seaman Paper Co 1236 Sherman Ave Evanston Ill "Seapak"
Silvercote Products Inc 161 E Erie St Chicago 11 Ill (Fiber glass)
Spaulding Fibre Co 310 Wheeler St Tonawanda N Y "Spauldo" (Paper for motors)
Troy Blanket Mills Troy N H (Jute and synthetic fiber felt for door panels etc)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "U S Windlace" (Plastic foam "Royalite" plastic sheet for bodies)
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill (Felt)**
Wilmington Fibre Specialty Co New Castle Del "Fyberoid"

## INSULATION, Heat and Sound (Liquid)

**(For underbody, body panels, etc.)**

Anderson-Prichard Oil Corp 1000 Liberty Bank Bldg Oklahoma City 2 Okla "Apcoseal" (Underbody)
Battenfield Grease & Oil Corp 3148 Roanoke Rd Kansas City 8 Mo (Underbody)
Carborundum Co Buffalo Ave Niagara Falls N Y "Red-I-Brand" (Body)
Carey Mfg Co Philip Lockland Cincinnati O "Carey Automotive Undercoater" (Underbody)
Cellusede Products Inc 501 N Madison St Rockford Ill (Flock)
Daubert Chemical Co 4700 S Central Ave Chicago 38 Ill "Fendix" (Undercoating; "Nox Temp" "Nox-Sound")
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich (Underbody)
Ensign Products Co 3528 E 76th St Cleveland 5 Ohio (Underbody)
Flintkote Co 30 Rockefeller Plaza New York 20 N Y
Gibson-Homans Co 2366 Woodhill Rd Cleveland O (Underbody)
Hutson Div Gibson-Homans Co Railroad & Institute Sts Conyers Ga (Underbody)
Lion Oil Co Lion Oil Bldg El Dorado Ark "Lion" "Nokorode" (Underbody)
Mortell Co J W 550 N Hobbie Ave Kankakee Ill "Insulmat" "Mortex" "Mortite" (For underbody body panels etc)
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa (Underbody)
Pioneer Products Div of Witco Chemical Co 75 E Wacker Drive Chicago 1 Ill
Presstite Div American-Marietta Co 3738 Chouteau St St Louis 10 Mo (Underbody)
Service Industries 2103 E Somerset St Philadelphia 34 Pa "Braemul" (Underbody)
Steelcote Mfg Co 3418 Gratiot Ave St Louis 3 Mo "Asbest-O-Seal" (Underbody)
Witco Chemical Co 75 E Wacker Drive Chicago 1 Ill "Witcote"

**INSULATION, LAMINATED (PHENOLIC, ETC.)—See Plastics—Laminated**

**INSULATION, MOLDED (PHENOLIC, ETC.)—See Plastics—Molded**

**INSULATORS, RUBBER SHOCK — See Shackles, Spring; also Mountings, Rubber Insulated**

## INSULATORS, Spark Plug

Diamonite Products Mfg Co Shreve Ohio
Frenchtown Porcelain Co 8th & Harrison Sts Frenchtown N J

## INTERCOOLERS, Engine Supercharger

Yates-American Machine Co Beloit Wis
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

## INVERTERS, Auto

**(For changing storage battery current to AC for operating tape recorders and dictating machines in car)**

**A C SPARK PLUG The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich**
American Television & Radio Co 300 E 4th St St Paul 1 Minn "ATR"
Exide Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "E S B"
Grant Sales Automotive Div Electric Storage Battery Co 708 S Third St Minneapolis 15 Minn "E S B"
Jordon Electric Products Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "E S B"
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "E S B"

## IRON, Alloyed Cast

Alten Foundry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio
Campbell Wyant & Cannon Foundry Co Muskegon Mich "Proferall"
Erie Malleable Iron Co 609 W 12th St Erie Pa "Ermalite"
Frank Foundries Corp 2020 Third Ave Moline Ill "Frankite"
Grede Foundries Inc 1320 S First St Milwaukee 1 Wis
**INTERNATIONAL NICKEL CO 67 Wall St N Y 5 N Y "Ni-Resist" (14 to 36% nickel)**

## IRON, Pig

Alan Wood Steel Co Conshohocken Pa
Republic Steel Corp 1441 Republic Bldg Cleveland 1 Ohio

**IRON CASTINGS—See Castings, Iron**

**IRONS, BODY — See Hardware, Automobile and Truck Body**

## IRONS, Folding Seat

Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio

## IRONS, Soldering (Acetylene)

Dockson Corp 3839 Wabash Ave Detroit 8 Mich
Linde Co 270 Park Ave N Y 17 N Y "Prest-O-Lite"
Rexarc Inc West Alexandria Ohio "Sight Feed"
Selas Corp of America Dresher Pa (Gas)

## IRONS, Soldering (Electric)

American Electrical Heater Co Woodward Cass & Burroughs Aves Detroit 2 Mich "American Beauty" "Wasso Glo-Melt"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Hexacon Electric Co 161 W Clay Ave Roselle Park N J
Ideal Industries Inc 1014 Park Ave Sycamore Ill
Lenk Mfg Co Franklin Ky
Linde Co 270 Park Ave New York 17 N Y "Prest-O-Lite"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Vulcan Electric Co 88 Holten St Danvers Mass "Vulcan" "Mercury" & "Jackson"
Wall Mfg Co P P O Box 71 Grove City Pa "Harmic" & "Trig-R-Heat"
Weller Electric Corp 601 Stone's Crossing Rd Easton Pa
Wen Products Inc 5806 Northwest Hwy Chicago 31 Ill
Zephyr Mfg Co 201 Hindry Ave Inglewood Calif (Electric)

**IRONS, TOP—See Hardware, Automobile and Truck Body**

## ISOLATORS, Vibration Absorption (Machinery)

American Felt Co 25 Glenville Rd Glenville Conn "Vibra-Mount" (Felt)
Barry Controls Inc 702 Pleasant St Watertown 72 Mass "Barrymount"
Bushings Inc 4358 Coolidge Highway Royal Oak Mich "Vibro-Leveller"
Clark - Cutler - McDermott Co Fisher St Franklin Mass ("Airloc" "Wedgemount" adjustable)
Korfund Co Cantiague Rd Westbury L I N Y "Korfund" "Vibro-Isolators" "Vibro-Dampers" "Elasto-Rib"
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill "Westorb" (Felt)**

## JACKS, Auto (Mechanical)

Ajax Mfg Corp of Wis 1201 Michigan Blvd Racine Wis
Auto Specialties Mfg Co 643 Graves St St Joseph Mich "Ausco"
Caster Mold & Machine Co 1097 E & J St N Barberton Ohio "Ace" "Caster Jr" "Caster Sr" "Queen" "Super" "TMC"
Duff-Norton Co 2709 Preble Ave N S Pittsburg Pa
Edgewater Automotive Div Auto Specialties Mfg Co St Joseph Mich "Fleet"
Ryerson & Haynes Inc 2307 E Ganson St Jackson Mich
Sal Metal Products Co 120 Freeman St Brooklyn 22 N Y "Sam-Sons"
Triangle Jack Co Box 73 Haysville Kans
Universal Tool & Stamping Co Butler Ind "Little Giant" "Universal"
Vulcan Mfg 400 W Third St Winona Minn
Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis
Weaver Mfg Co 2177 S Ninth St Springfield Ill

## JACKS, Engine

Lake Shore Inc Iron Mountain Mich

**JAPANNING DRYERS—See Dryers, Japanning and Varnish**

## JAWS, Face Plate (Portable)

Bullard Co 286 Canfield Ave Bridgeport 9 Conn
Skinner Chuck Co 95 Edgewood Ave New Britain Conn

**JIG BUSHING—See Bushings, Jig**

**JIGS—See Dies, Jigs, Tools and Fixtures**

## JIGS, Connecting Rod Aligning

Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate-Maker"
Lee Co K O Congress at First Ave S E Aberdeen S D
Lisle Corp 809 E Main St Clarinda Iowa
Stevens Walden Inc 475 Shrewsbury St Worcester Mass
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo
Wilson Inc K R Arcade N Y "KRW"

## JIGS, Drill

Cleveland Universal Jig Co 13328 St Clair Ave Cleveland 10 Ohio "C U J"
Pioneer Aluminum Inc 5251 W Imperial Highway Los Angeles 45 Calif
Siewek Tool Co 2862 E Grand Blvd Detroit 2 Mich
Woodworth Co N A 1300 E Nine Mile Rd Detroit 20 Mich "Woodworth Cone-Lok"
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

**JIGS, PISTON ALIGNING—See Jigs, Connecting Rod Aligning**

## JOINTS, Ball

**(For spark and throttle connections)**

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio
Atwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich
Clevite Harris Products Inc Lockwood Rd Milan Ohio "Clevebloc" (Rubberized)
Edelman & Co E 2332 Logan Blvd Chicago 47 Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco" (Assemblies)
Russell Mfg Co E Main St Middletown Conn "Rusco"
Superior Ball Joint Corp 8890 Trier Rd Ft Wayne Ind
Thompson Products Michigan Div Thompson-Ramo Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Front end suspension)
**TOUREK MFG CO J J 1901 S Kilbourn Ave Chicago 23 Ill**

## JOINTS, Expansion

**FLEXONICS CORP Automotive Div 2021 S Latham St Memphis Tenn**
**GARLOCK INC 402 Main St Palmyra N Y**

## JOINTS, Power Take-Off

Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer"
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Gray & Prior Machine Co 614 Windsor St Hartford Conn
Muncie Parts Mfg Co 342 N Pershing Dr Muncie Ind

## JOINTS, Power Take-Off—continued

Neapco Products Inc South & Cross Sts Pottstown Pa
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
**ROCKWELL-STANDARD CORP Universal Joint Div 1 Glass St Allegan Mich "Blood Bros"**
Stimmel Winch Co 37-24 33rd St Long Island City 1 N Y
Western Automotive Co 2300 S Parkway Chicago 16 Il "Wesco"

## JOINTS, Swivel

Chiksan Co 330 N Pomona Ave Brea Calif

## JOINTS, Universal (Automotive)

**(See also Shafts, Propeller; see also Couplings, Flexible)**

Alloy Mfg Co 3208 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
Bendix Products Div Bendix Corp South Bend 20 Ind "Bendix-Weiss"
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
Con-Vel Div Dana Corp 3901 Christopher St Detroit 11 Mich "Rzeppa"
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Detroit Universal Div Chrysler Corp 6455 Kingsley Ave Dearborn 1 Mich
Haberle Engrg & Mfg Co 682 S River St Aurora Ill
Imco Mfg & Sales Corp 10 E Lafayette Ave Baltimore 2 Md "U J S"
Kupfrian Mfg Corp 351 State St Binghamton N Y
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Sole distributors Lempco Automotive Inc 2953 E 55th St Cleveland 27 Ohio)
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power"
**LORD MFG CO 1635 W 12th St Erie Pa "Dynaflex"**
**MECHANICS UNIVERSAL JOINT Div Borg-Warner Corp 2020 Harrison Ave Rockford Ill**
Morse Chain Co Ithaca N Y "Morflex"
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Pilot" "National"
Motor Master Products Corp P O Box 278 Defiance Ohio
Neapco Products Inc South & Cross Sts Pottstown Pa
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco"
Precision Universal Joint Corp 615 S California Ave Chicago 12 Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
**ROCKWELL-STANDARD CORP Universal Joint Div 1 Glass St Allegan Mich "Blood Bros"**
Root Co B M Prospect & Sherman Sts York Pa
Saco-Lowell Automotive Div Saco-Lowell Shops Box 111 Saco Maine
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
Stimmel Winch Co 37-24 33rd St Long Island City 1 N Y
Stow Mfg Co 445 State St Binghamton N Y
Western Automotive Co 2300 S Parkway Chicago 16 Ill "Wesco"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Williams Engineering Corp 224 Park Ave Baltimore Md

## JOINTS, Universal (Machinery)

Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Detroit Bevel Gear 834 N Seventh St Minneapolis 11 Minn
Fox Engrg Co 1336 Francis St Jackson Mich
Gray & Prior Machine Co 614 Windsor St Hartford Conn "Atlas"
Lovejoy Flexible Coupling Co 5000 W Lake St Chicago 44 Ill
**MECHANICS UNIVERSAL JOINT Div Borg-Warner Corp 2020 Harrison Ave Rockford Ill**
Precision Tool & Mfg Co of Illinois 1301 S Laramie Ave Cicero 50 Ill
Sutton Engrg Co First National Bank Bldg Pittsburgh 22 Pa

**JUNCTION BOXES—See Boxes, Junction (Auto)**

**KEEPERS, Valve—See Keys, Valve Stem**

**KEY CUTTING MACHINES—See Machines, Key Cutting**

## KEYS, Machine

Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Gillen Co John 2540 S 50th Ave Cicero 50 Ill
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Standard Automotive Parts Co 660 Nims St Muskegon Mich
Standard Steel Specialty Co W Mayfield Rd Beaver Falls Pa

**KEYS, SPLIT—See Pins, Cotter**

## KEYS, Switch and Starting

Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis

## KEYS, Valve Stem

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Ertel Products Corp Div of Ertel Mfg Corp 1400 E 20th St Indianapolis Ind
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog"
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa
Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC"
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Thompson Products Valve Div Thompson-Ramo-Wooldridge Inc 1455 E 185th St Cleveland 10 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

## KEYS, Woodruff

Allmetal Screw products Co 821 Stewart Ave Garden City N Y (Stainless steel)
Gillen Co John 2540 S 50th Ave Cicero 50 Ill
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Perfect Parts Inc 43 W 23rd St New York 10 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Standard Automotive Parts Co 660 Nims St Muskegon Mich
Standard Steel Specialty Co W Mayfield Rd Beaver Falls Pa

**KEYSEATERS—See Machines, Keyseating**

**KEYWAY CUTTERS—See Cutters, Keyway**

**KING PINS—See Pins, King**

## KNIVES, Metal Cutting Machine

Circular Tool Co 765 Allens Ave Providence R I "Circle R"
Hill Acme Co Cleveland Knife Div 1201 W 65th St Cleveland 2 Ohio "Cleveland"
Meyers Co W F 1017 14th St Bedford Ind "Meyco"
Wapakoneta Machine Co E North St Wapakoneta Ohio "Wapak"

## KNOBS, Instrument Panel, Radio, Windshield Wiper, etc.

American Insulator Corp New Freedom Pa "Alco" (Regulator handle gear shift lever ash receiver etc)
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo (Window gear shift and brake lever)
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass (Instrument panel radio windshield wiper etc)
Dimco-Gray Co 207 E Sixth St Dayton 2 Ohio (Gear shift lever)
Garfield Mfg Co P O Box 59 Garfield N J (Gear shift lever)
Hollywood Accessories Inc 12322 Exposition Blvd Los Angeles 64 Calif
Kurz-Kasch Inc 1415 S Broadway Dayton 1 Ohio (Radio gear shift lever and instrument
National Autocraft Mfg Co P O Box 6907 Orlando Fla "KranKnob" (Window riser; "LoKnob" door locking; "Push-On" window crank)
Waterbury Companies Inc 835 S Main St Waterbury 20 Conn

**LP-GAS ADAPTORS, REGULATORS AND VAPORIZERS—See Regulators, Adaptors and Vaporizers, LP-Gas**

**L-P GAS CONVERSION UNITS—See Converters L-P Gas for Internal Combustion Engines**

**LP-GAS FUEL CYLINDERS (For Industrial Trucks)—See Cylinders, LP-G Fuel (For Industrial Trucks)**

## LACQUER, Auto, Truck and Bus

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich "Proxlin" "ProFax" (Also acrylic )
American Lacquer Solvents Co Perkiomen Junction Phoenixville Pa "Co-Loidal-Ac"; "Acry-Lac" (Acrylic)
American Paint Co 902 Larrabee St Chicago 10 Ill (For commercial vehicles)
American Varnish Co 1138 N North Branch St Chicago 22 Ill "Amerilac"
Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Arcozon" ; "Arcolite" (Acrylic)
Automotive Finishes Inc 8747 Brandt St Dearborn Mich "C-Bel"
Boydell Bros Co 1121 E McNichols Rd Detroit 3 Mich
Day & Co James B 1872 Clybourn Ave Chicago 14 Ill "Daconite"
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Ave Detroit 4 Mich "Ditz-Lac"; "Duracryl" (Acrylic)
du Pont de Nemours & Co E I Fabrics & Finishes Dept Finishes Div Refinish Sales Wilmington 98 Del "Duco"; "Lucite" (Acrylic)
Forbes Finishes Div Pittsburgh Plate Glass Co 3800 W 143rd St Cleveland 11 Ohio "Nitroloid"; "Duracron"
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Horn Co A C Prdoucts Finishes Div 10th St & 44th Ave Long Island City 1 N Y
Illinois Bronze Powder Co 2015 S Clark St Chicago 16 Ill "Illbronze"
Martin-Senour Co 2500 Senour Ave Chicago 8 Ill "Hi-Solids"; "Dythol-Loc" (Acrylic)
Nason Products Div W P Fuller & Co 450 E Grand Ave South San Francisco Calif "A.N.L."
Nikolas & Co G J 1227 Van Buren St Chicago 7 Ill "Nik-O-Lac"
Pittsburgh Plate Glass Co Paint Div 1 Gateway Center Pittsburgh 22 Pa "Mimax"
Plasti-Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohio
Rinshed-Mason Co 5935 Milford St Detroit 10 Mich "R-M" (Also acrylic)
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio "Opex"; "Kem"
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y
Zac-Lac Paint & Lacquer Corp 350 Simpson St NW Atlanta 13 Ga

**LACQUER, STRESS ANALYSIS—See Compounds, Metal Testing**

**LAG SCREW SETTERS—See Setters Stud, Nut, Bolt and Lag Screw**

**LAMINATED FIBRE—See Fibre, Laminated**

**LAMINATED PHENOLIC PARTS—See Plastics—Laminated**

**LAMINATED WOOD—See Panels, Plywood**

**LAMP PARTS AND FITTINGS—See Connectors, Lamp; Lamps or Bulb, Miniature Incandescent; Lenses, Lamp; also Sockets, Lamp (Electric)**

## LAMPS, Back-Up, Cowl, Dome, Fender, Tail, Parking and Clearance

Anthes Force Oiler Co 20th St & Ave M Ft Madison Iowa (Tail parking and clearance )
Apco Mossberg Co Lamb St Attleboro Mass "Stream-A-Lite" (License plate)
Arrow Safety Device Co Mt Holly N J (Tail dome marking parking and clearance)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Alco" "Pathfinder" (Clearance marker license back-up and license)
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill "Sho-Glo" (Clearance for trailers)
Betts Machine Co 1800 Pennsylvania Ave W Warren Pa "Warren Snap Seal" (Clearance tail license dome etc)
Bolser Corp S Main St Cedar Falls Iowa (Clearance and marker)
Burgess Battery Co Ft of Exchange St Freeport Ill "Radar"; "Trailer-Lite" (Tail)
Capson Mfg Co 2565 Fullerton Ave Chicago Ill (Dash for trucks)
Cole Automotive Products Co P O Box 56 Alfred St Station Detroit 1 Mich "Merit" (Clearance tail and marker for trucks trailers and buses)
Columbus Metal Products Co 1341 Norton Ave Columbus 8 Ohio "Catseye" (Dome marker clearance, backup etc)
Dietz Co R E 225 Wilkinson St Syracuse 1 N Y (Dome back-up tail parking running board and clearance)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Swa-Bak"
Electric Autolite Co Toledo 1 Ohio "Autolite" (Cowl fender tail and clearance)

Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio
General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio "G-E" (Backup dome tail parking clearance instrument signal etc)
Griffin Lamp Co Shelby Miss (Clearance dome back-up tail marker and fuel compartment)
Grote Mfg Co State Route 7 Madison Ind (Tail back-up dome marker clearance combination stop tail and license bracket)
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind (Back-up dome fender tail license plate parking and clearance)
H & P Die & Stamping Co 13945 Triskett Rd Cleveland 11 Ohio (Marker, for bus, truck and trailer)
Hall Lamp Co C M 1035 E Hancock Ave E Detroit Mich (Dome tail backup and parking)
Hollywood Accessories Inc 12322 Exposition Blvd Los Angeles 64 Calif (License plate)
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio (Back-up fender dome tail parking clearance marker and identification)**
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill (Tail parking dome marker and clearance)
Loock & Co R J 343 N Gay St Baltimore Md "R-J" (Parking)
**MIRO-FLEX CO 1824 E 2nd St Wichita 7 Kans (Clearance marker and tail)**
Norlipp Co 5925 S Lowe Ave Chicago 21 Ill (Clearance and back-up)
Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo "PMCO" (Back-up cab fender clearance marker and tail)
Rowe Industries 1702 Wayne St Toledo 9 Ohio "Hartline"
S & M Lamp Co 2369 E 51st St Los Angeles 54 Cal (Tail parking clearance fender and dome)
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y (Dome tail clearance marker etc)
Sparton Automotive Div of Sparton Corp Jackson Mich (Armored clearance dome emergency flush-type back-up loading marker tail and combination stop and tail)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis (Back-up clearance tail and marker)
Terado Co 1068 Raymond Ave St Paul 8 Minn "Rov-A-Lite" (Storage battery operated fluorescent lamp for trucks)
Thatcher Glass Mfg Co McKee Div Jeannette Pa (Dome)
Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill (Clearance)
Tung-Sol Electric Inc 1 Summer Ave Newark 4 N J (Cartridge type dome and door)
U S Metal Products Co 1045 Atlantic Ave Brooklyn 38 N Y "U S Pioneer" (Backup)
Unity Mfg Co 2909 Indiana Ave Chicago 16 Ill. (Back-up and deck)
Yankee Metal Products Corp 25 Grand St Norwalk Conn (Fender back-up clearance dome parking and tail)

**LAMPS, DOME—See Lamps, Back-Up, Cowl, Dome, Fender, Tail, Parking Running Board and Clearance**

## LAMPS, Drying, Baking and Heating

Dry Clime Lamp Corp 410 Mill St Greensburg Ind (Infra-red baking and drying)
Fostoria Corp N Main St Fostoria Ohio "Fostoria Evenray" (Infrared)
General Electric Co Lamp Div Nela Park Cleveland 12 Ohio (Infra-red)
Lamp Div Westinghouse Electric Corp MacArthur Ave Bloomfield N. J. "Westinghouse"
Master Mfg Co 811 W Cabrini St Chicago 7 Ill (Infra-red)
North American Electric Lamp Co 1520 N 13th St St Louis 6 Mo "Nalco-Drithern" (Infra-red portable drying units)
Penetray Corp 615 Front St Toledo 5 Ohio (Infra-red)
Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill (Infra-red)

## LAMPS, Fluorescent (Portable)

**DAY-RAY PRODUCTS INC 1133 Mission St South Pasadena Calif**

## LAMPS, Fog, Road and Spot

Arnold Corp Automotive Div Argonne Rd Warsaw Ind "Arno-Lite" (Spot)
Arrow Safety Device Co Mt Holly N J (Fog)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Pathfinder" (Fog and spot)
Busch & Co A G 6138 Northwest Hwy Chicago 31 Ill "Spotty"
Cable Electric Products Inc 234 Daboll St Providence 7 R I "Klip-Beam" (Spot)
Carpenter Mfg Co 195 Master-Light Bldg Somerville 45 Mass ("Roofmaster" roof mounted spot)
Dietz Co R E 225 Wilkinson St Syracuse 1 N. Y. (Fog and spot)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Nobby"
Electric Autolite Co Toledo 1 Ohio "Autolite" (Fog and road)
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio (Fog and spot)
General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio
General Electric Co Wiring Device Dept 95 Hathaway St Providence 7 R I (Spot)
Griffin Lamp Co Shelby Miss (Fog)
Grote Mfg Co State Route 7 Madison Ind (Fog)
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Hall Lamp Co C M 1035 E Hancock Ave Detroit Mich (Fog)
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill (Fog and road)
Lamp Div Westinghouse Electric Corp MacArthur Ave Bloomfield N J "Westinghouse"
Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo "PMCO" (Fog)
S & M Lamp Co 2369 E 51st St Los Angeles 54 Calif
Sparton Automotive Div of Sparton Corp Jackson Mich (Fog and auxiliary driving)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis
Supersite Corp 300 Seymour Ave Derby Conn "Dual-Lites" (Spot)
U S Metal Products Co 1045 Atlantic Ave Brooklyn 38 N Y "U S Pioneer" (Fog)
Unity Mfg Co 2909 Indiana Ave., Chicago 16 Ill
Yankee Metal Products Corp 25 Grand St Norwalk Conn (Also combination mirror and spot light)

## LAMPS, Head

Arrow Safety Device Co Mt Holly N J (Bus etc)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill
Dietz Co R E 225 W Wilkinson St Syracuse 1 N Y
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill
Electric Autolite Co Toledo 1 Ohio "Autolite"
Electro Mechanical Products Co 32700 Ford Rd Garden City Mich
General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Hall Lamp Co C M 1035 E Hancock Ave Detroit Mich
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Lamp Div Westinghouse Electric Corp MacArthur Ave Bloomfield N J "Westinghouse"
**TUNG-SOL ELECTRIC INC 1 Summer Ave Newark 4 N J (Electric)**
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y "Eveready"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Yankee Metal Products Corp 25 Grand St Norwalk Conn

**LAMPS, INCANDESCENT — See Lamps or Bulbs, Miniature Incandescent**

## LAMPS, Instrument Panel

King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass (Electroluminescent)

**LAMPS, PARKING—See Lamps, Back-Up, Cowl, Dome, Fender, Tail, Parking and Clearance**

**LAMPS, REEL—See also Lamps, Fog, Road and Spot**

**LAMPS, ROAD—See Lamps, Fog, Road and Spot**

**LAMPS, SIDE AND TAIL (ELECTRIC)—See Lamps, Back-Up, Cowl Dome, Fender, Tail, Parking and Clearance**

**LAMPS, STOP—See Signals, Direction Indicating (Auto)**

## LAMPS, Tell-Tale (Dash)

Cole-Hersee Co 20 Old Colony Ave Boston20 Mass (Rear signal or tail lamp)
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyln 11 N Y (Hand brake and stop light)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis (Hand brake)

## LAMPS, Warning

Busch & Co A S 6138 Northwest Hwy Chicago 3 Ill "Flashy" (Plugs into cigar lighter socket)
Carpenter Mfg Co 195 Master-Light Bldg Somerville 45 Mass (Roof mounted colored flashing oscillating and rotating)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill
Federal Sign & Signal Corp 136th & Western Ave Blue Island Ill "Federal" (Flashing red light for emergency vehicles also combination siren and warning light for emergency and military vehicles "Beacon Ray" "Fire-Ball" "Propello Ray" revolving)
Griffin Lamp Co Shelby Miss (Flashing)
Grote Mfg Co State Route 7 Madison Ind
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Pyle-National Co 1334 N Kostner Ave Chicago 51 Ill "Gyralite" "Rota-Beam" (Revolving)
Signal Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y
Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill (Revolving flashing)
Unity Mfg Co 2909 Indiana Ave Chicago 16 Ill (Red flashing)

## LAMPS or BULBS, Miniature Incandescent

General Electric Co Miniature Lamp Dept Nela Park Cleveland Ohio "G-E"
Hudson Lamp Co 528 Elm St Kearny N J
Lamp Div Westinghouse Electric Corp MacArthur Ave Bloomfield N J "Westinghouse"
Seabury & Co 1518 W 7th St Los Angeles 17 Calif
Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass
**TUNG-SOL ELECTRIC INC 1 Summer Ave Newark 4 N J**
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y

**LANDING GEARS, TRAILER — See Gears, Landing (Trailer)**

**LAPPING COMPOUNDS — See Compounds, Lapping**

**LAPPING MACHINES—See Machines' Lapping**

**LATCHES, HOOD—See Fasteners, Hood**

**LATHE ATTACHMENTS—See Centers, Lathe and Grinder; Chucks, Lathe; also Holders, Tool**

**LATHE TOOLS—See Tools, Lathe, Planer, Slotter and Shaper; also Tools, Turret Lathe**

## LATHES, Automatic and Semi-Automatic

Baird Machine Co 1700 Stratford Ave Stratford Conn (Vertical automatic)
Bullard Co 286 Canfield Ave Bridgeport 9 Conn "Bullard Hydra Feed"
Cone Automatic Machine Co Windsor Vt (Bar and chucking)
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Gisholt" (Hydraulic "Gisholt Simplimatic"**
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "Fay"
LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Duomatic"
Monarch Machine Tool Co 402 Oak St Sidney Ohio
Potter & Johnston Co—See Pratt & Whitney Co
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Potter & Johnson"
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y "Loswing"
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill (Automatic)**
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich (Automatic)

## LATHES, Bench

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Atlas" & "Clausing"
Elgin Tool Works 67 N State St Elgin Ill
Hardinge Bros Inc 1418 College Ave Elmira N Y (Precision)
LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio "LeBlond Regal"
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass

### LATHES, Bench—continued

Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind

### LATHES, Boring

Bradford Machine Tool Co 657 Evans St Cincinnati Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts"
LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 6 Ohio (Horizontal)

### LATHES, Cam Turning

Crankshaft Machine Co 314 N Jackson St Jackson Mich "Jackson"

### LATHES, Center Drive Facing

Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

### LATHES, Chucking

Cleveland Automatic Machine Co 4932 Beach St Norwood Cincinnati 12 Ohio
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Gisholt Masterline" (Automatic)**
Hardinge Bros Inc 1418 Collgee Ave Elmira N Y (Horizontal)
Monarch Machine Tool Co 402 Oak St Sidney Ohio
**NEW BRITAIN MACHINE CO New Britain-Gridley Machine Div South St New Britain Conn (Automatic)**
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

**LATHES, CHUCKING (MULTIPLE SPINDLE)—See Machines, Chucking (Multiple Spindle)**

### LATHES, Contouring

Cincinnati Lathe & Tool Co Cincinnati 9 Ohio "Cincinnati Hydraguide"
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St SS Pittsburgh 3 Pa
Monarch Machine Tool Co 402 Oak St Sidney Ohio

### LATHES, Copying

American Tool Works Co Pearl & Eggleston Aves Cincinnati 2 Ohio (Hydraulic)
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Copymatic"
**NEW BRITAIN MACHINE CO New Britain-Gridley Machine Div South St New Britain Conn "New Britain +GF+"**

### LATHES, Crankshaft

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts"
Crankshaft Machine Co 314 N Jackson St Jackson Mich "Jackson"
**LE BLOND MACHINE TOOL CO R K Madison & Edwards Rds Cincinnati 8 Ohio (Automatic)**
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

### LATHES, Engine and Tool Room

American Tool Works Co Pearl & Eggleston Aves Cincinnati 2 Ohio
Atlas Press Co 1842 N Pitcher St Kalamazoo Mich
Barber-Colman Co 1300 Rock St Rockford Ill "Hendey"
Bradford Machine Tool Co 722 Porter St Lansing 5 Mich
Carroll-Jamieson Machine Tool Co Davis Rd Batavia Ohio "C & J" (Engine)
Cincinnati Lathe & Tool Co Cincinnati 9 Ohio "Tray-Top"; "Hydrashift"
**CLEARING DIV OF U S INDUSTRIES INC 6499 W 65th St Chicago 38 Ill "Clearing-Axelson" "Clearing-Harrison"**
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts" (Engine)
Hardinge Bros Inc 1418 College Ave Elmira N Y (Precision tool room)
LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio
Lehmann-Brandes Machine Co 3560 Chouteau Ave St Louis 3 Mo (Engine)
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Powerturn"; "Hi-Turn" (Engine)
Logan Engineering Co 4901 W Lawrence Ave Chicago 30 Ill
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St S S Pittsburgh 3 Pa (Engine)
Monarch Machine Tool Co 402 Oak St Sidney Ohio
Nebel Machine Tool Corp Nebel Lathe Div 3401 Central Parkway Cincinnati 25 Ohio
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn (Tool room)
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass.
Rockford Machine Tool Co 2400 Kishwaukee St Rockford Ill
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Lansing"
Sheldon Machine Co 4240 N Knox Ave Chicago 41, Ill
Sidney Machine Tool Co Highland Ave Sidney Ohio
Simmons Machine Tool Corp N Broadway Albany 1 N Y
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Springfield Machine Tool Co 631 Southern Ave W Springfield Ohio
Wade Tool Co 49 River St Waltham 54 Mass (Tool room)
Western Machine Tool Works 255 N Ninth St Holland Mich "Chard" (Engine)
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich (Engine)
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich (Turret)

### LATHES, Extension and Gap

LeBlond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio (Gap)
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Superturn" (Gap)
Nebel Machine Tool Corp Nebel Lathe Div 3401 Central Parkway Cincinnati 25 Ohio

**LATHES, PATTERN MAKERS'—See Lathes, Woodworking**

**LATHES, POLISHING—See Machines, Buffing and Polishing**

### LATHES, Precision

Olofsson Corp 2727 Lyons Ave Lansing Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Le Pont"
Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill "Sebastian" & "Sheldon"
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind

### LATHES, Special Piston

Wood Co Frank N 344 W Main St Waukesha Wis "Trucut" (Regrooving cleaning and centering)

### LATHES, Speed

Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio

### LATHES, T

Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio

**LATHES, THREADING — See Machines, Threading**

**LATHES, TOOL ROOM—See Lathes, Engine and Tool Room**

### LATHES, Turret

**(Including vertical and horizontal types)**
Bardons & Oliver Inc 1133 W Ninth St Cleveland 13 Ohio
**BULLARD CO 286 Canfield Ave Bridgeport 9 Conn "Man-Au-Trol"; "Dynatrol" (Vertical)**
Challenge Mchry Co First & Columbus Sts Grand Haven Mich
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Gisholt Masterline Fastermatic" (Automatic chucking) "Gisholt Masterline" "Gisholt AR" (Automatic ram; "Gisholt" ram and saddle types)**
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "J & L"
Logan Engineering Co 4901 W Lawrence Ave Chicago 30 Ill
National Acme Co 170 E 131st St Cleveland 8 Ohio
Oster Mfg Co 1340 E 289th St Wickliffe Ohio "Rapiduction"
Potter & Johnston Co—See Pratt & Whitney Co
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Potter & Johnson"
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill
Simmons Machine Tool Corp N Broadway Albany 1, N Y
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Wade Tool Co 49 River St Waltham 54 Mass (Hand)
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

### LATHES, Vertical

Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

### LATHES, Woodworking

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich
Blount Co J G Newton Rd Littleton Mass
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Goodspeed Machine Co 202 Spruce St Winchendon, Mass.
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"

### LEAD, Battery

Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Bunker Hill Co Fifth Floor 660 Market St San Francisco 4 Calif
Division Lead Co 7742 W 61st Pl Summit Ill "Divco"
Federated Metals Div American Smelting & Refining Co 120 Broadway N Y 5 N Y

**LEAD BURNERS—See Burners, Lead**

### LEADS, High Frequency (For Induction Heating)

Titeflex Inc Hendee St Springfield 4 Mass

**LEAF SPRINGS—See Springs, Leaf**

**LEATHER, ARTIFICAL OR IMITATION—See Fabric Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)**

### LEATHER, Natural (Upholstery)

American Leather Mfg. Co 250 Passaic St Newark 4 N J
Blanchard Bro & Lane Inc Grand Haven Mich (Sole distributors Ryan Sales & Engrg Co 7545 Lyndon Ave Detroit 38 Mich)
Eagle-Ottawa Leather Co Grand Haven Mich
Garden State Tanning Inc 12 E 33rd St N Y 16 N Y "Gartan"
Lackawanna Leather Co 700 Grand Ave Hackettstown N J "Luxor" "Peerless Antique" "Glazed Antique" "Burnished Castilian" "Feathersoft" "Featherwhite" "Lovelether" (For upholstery)
Radel Leather Mfg. Co 445 Wilson Ave Newark N J

**LEATHER, PUMP—See Gaskets, Leather**

**LEATHER, UPHOLSTERY—See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery); also Leather, Natural (Upholstery)**

**LEATHER PACKING—See Packing Leather**

**LEATHER SHIMS—See Shims, Leather**

### LENSES, Lamp (Glass and Plastic)

American Optical Co Safety Products Div Mechanic St Southbridge Mass (Glass)
Auto Lamp Mfg Co Alco Div 2909 S Indiana Ave Chicago 9 Ill (Plastic)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill (Glass)
Electric Autolite Co Toledo 1 Ohio "Autolite" (Glass)
Griffin Lamp Co Shelby Miss
Grote Mfg Co State Route 7 Madison Ind (Plastic)
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind (Plastic)
Johnson Glass & Plastic Corp 5248 Elston Ave Chicago 30 Ill "Lynx-Eye (Tail and parking "Glo-Brite" plastic tail and parking)
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Lancaster Glass Corp 220 W Main St Lancaster Ohio (Tail stop parking backup directional interior dimming devices etc)
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco"
Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill (Plastic)
Thatcher Glass Mfg Co McKee Div Jeannette Pa (Glass)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Glass and plastic)
Yankee Metal Products Corp 25 Grand St Norwalk Conn (Glass)

## LENSES and FRAMES, Safety (Eye Glasses)

**BAUSCH & LOMB OPTICAL CO 14161 Bausch St Rochester 2 N Y "Bal-Safe"**

## LEVELLERS, Sheet Metal

Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y

**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio**

Stanat Mfg Co 531 Shames Dr Westbury N Y
Sutton Engrg Co First National Bank Bldg Pittsburgh 22 Pa (For body stock)
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
Union Tool Corp 800 N Detroit St Warsaw Ind
Yoder Co 5553 Walworth Ave Cleveland 2 Ohio

## LEVERS, Brake and Gear Shift

(Finished or machined levers. For levers in the rough—see Castings; also Forgings)

American Forging & Socket Co P O Box 210 Pontiac Mich
Batavia Metal Products Corp Liberty & School Sts Batavia N Y
Bingham Stamping Div Bingham-Herbrand Corp 1062 Post St Toledo Ohio (Brake)
Eaton Mfg Co Stamping Div 17877 St Clair Ave Cleveland 10 Ohio (Gear shift)
General Products Corp 103 N Horton St Jackson Mich (Gear shift)
Orschein Brake Lever Mfg Co 1177 N Morley St Moberly Mo (Brake for trucks)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Ryerson & Haynes Inc 2307 E Sanson St Jackson Mich (Brake)
Tube Manifold Corp 415 Bryant St North Tonawanda N Y (Gear shift)

## LIFTERS, Sheet Steel and Coiled Stock

Cullen-Friestedt Co 1300 S Kilbourn Ave Chicago 33 Ill "C-F"
Die & Automation Inc 5353 Dixie Highway Hamilton Ohio
Heppenstal Co 4620 Hatfield St Pittsburgh 1 Pa
Littell Machine Co F J 4101 N Ravenswood Ave Chicago 13 Ill
Union Tool Corp 800 N Detroit St Warsaw Ind
Whiting Corp 157th & Lathrop Sts Harvey Ill "Whiting Pressergrip" (Vacuum)

**LIFT TRUCK PLATFORMS—See Platforms, Lift Truck**

**LIFT TRUCKS—See Trucks, Lift**

**LIFTING HOOKS—See Hooks, Lifting**

**LIFTING TONGS, AUTOMATIC—See Tongs, Lifting (Automatic)**

## LIFTS, Industrial Truck

Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa
Rotary Lift Co 1054 Kansas St Memphis 2 Tenn "Airdraulic" "Flodraulic" "Oil-draulic" "Rota Flow" "Rota-Gear" "Rotary"
United States Air Compressor Co 5300 Harvard Ave Cleveland 5 Ohio

**LIFTS, TELESCOPE—See Elevators, Industrial (Portable)**

**LIGHT RELAYS—See Relays, Horn and Light**

## LIGHTERS, Cigar or Cigarette (Electric)

(For use on car from regular lighting battery)

Casco Products Corp 512 Hancock Ave Bridgeport 2 Conn "Perfection" "Casco"
Cuno Engineering Corp 80 S Vine St Meriden Conn
Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y
Rochester Products Div General Motors Corp 1000 Lexington Ave Rochester 3 N Y "RP"
Santay Corp 351 N Crawford Ave Chicago 24 Ill (Automatic)
Sinko Mfg & Tool Co 7310 W Wilson Ave Chicago 31 Ill (Automatic)

**LIGHTS—See Lamps**

**LIGHTS, REFLECTING — See Reflectors, Safety**

**LIGHTS, STOP—See Signals, Direction Indicating (Auto)**

**LIGHTS, TIMING—See Instruments, Timing**

**LIMIT GAGES—See Gages, Limit**

**LIMIT SWITCHES — See Switches, Limit (Machine Tool)**

## LINING, Body or Frame

(For use between body sill and steel frames to prevent squeaking)

American Felt Co 25 Glenville Rd Glenville Conn
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"
Felters Co 210 South St Boston 11 Mass
Gilmer Co L H Cottman & Keystone Sts (Tacony) Philadelphia Pa
Keystone Roofing Mfg Co Franklin St & PRR York Pa
Latex Fiber Industries Inc Beaver Falls N Y "Lexide" "Laflex"
Rhopac Inc 3425 Cleveland St Skokie Ill
Stevens Co A T 118 E 28th St New York 16 N Y
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond" "Jalean"
Watson Co John Warren 1924 Hunting Park Ave Philadelphia 40 Pa "Silenite"
Western Felt Works 4115 W Ogden Ave Chicago 23 Ill

## LINING, Brake

**AMERICAN BRAKEBLOK DIV AMERICAN BRAKE SHOE CO 900 W Maple Rd Birmingham Mich**

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
Asbestos Textile Co 165 W Wacker Drive Chicago 1 Ill
Atlas Asbestos Co 469 Walnut St North Wales Pa "Atlas" "Autogard" "Duo-Friction" "Giant Atlas" "Old Ironsides" "Quaker" "Bodygard" "Lifegard "Master"
Bendix Products Div Bendix Corp South Bend 20 Ind
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Gatke Corp 228 N La Salle St Chicago 1 Ill "Gatke" "Grooved" "Malablok" "Waffle Block" "Blue Ribbon" "Standard" "Heavy Duty Woven' "Rugged Blocks"
General Metals Powder Co 130 Elinor Ave Akron 5 Ohio "Gempco"
Grey Rock Div of Raybestos-Manhattan Inc Manheim Pa
Grizzly Mfg Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill "Grizzly Syncro-Set" "Grizzly Silvertip" "X-T" "Grizzly Saftibond"
Hope Webbing Co P O Box 1495 Providence 1 R I
Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton 1 Ohio "Inlite"
Johns-Manville 22 E 40th St New York 16 N Y "J-M" "4-Star" "Wireklad" "FT" "PB"
Lasco Brake Products Corp 2615 Magnolia St Oakland Calif
Marshall-Eclipse Div of Bendix Corp Box 538, Troy, N Y "Bendix Eclipse"
Miley Co L J 18 S Sangamon St Chicago 7 Ill "Champion" "Miley" "Miley Black Gold" "Miley Ebonite" "Premier" "Zeebee"
Molded Materials Div Carlisle Corp Gillis Ave Ridgway Pa "Mold-Blok"
National Brake Block Co 37-17 57th St Woodside 77 N Y "National" Seg-Mold" "Alltex" (Woven)
Pick Mfg Co West Bend Wis
Porter Co H K Amco Works E Sabine St Huntington Ind "Amco"
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper"
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn

**RAYBESTOS-MANHATTAN INC EQUIPMENT SALES DIV PO Box 1021 Bridgeport Conn "R/M"**

Raybestos-Manhattan Inc General Asbestos & Rubber Div North Charleston S C
Reddaway Mfg Co 30 Euclid Ave Newark 5 N J
Russell Mfg Co Middletown Conn "Rusco"
Scandura Inc Belting Co 112 Keswick Ave Charlotte 1 N C "Scandinavia" "Halo"
Silver Line Brake Lining Corp 5618 E Washington Blvd Los Angeles 22 Calif "Silver Bond" "Silver Line" "Silvermatic"
Southern Friction Materials Co Box 1475 Charlotte N C
Universal Friction Materials Div of Gairing Tool Co 1700 United Artists Bldg Detroit 26 Mich

**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo "Wagner CoMaX"**

Wellington Sears Co 111 W 40th St N Y 18 N Y
Wellman Co S K 200 Egbert St Bedford Ohio "Velvetouch Feramic" (Metallic)
World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

**LINING, FRAME—See Lining, Body or Frame**

## LININGS, Head

Burlington Mills Inc Burlington Wis
Johns-Manville 22 E 40th St N Y 16 N Y (Fiber glass)
Newark Auto Top Co 101 Central Ave Newark 2 N J
Pacific Mills Auto Fabrics Div Pacific Mills Domestics Corp 1407 Broadway N Y 18 N Y
Sackner Products Inc 901 Ottawa Ave NW Grand Rapids 2 Mich
Stevens & Co J P 24126 Woodward Ave Pleasant Ridge N J
Textileather Div of General Tire & Rubber Co 607 Madison Ave Toledo 3 Ohio
Twitchell Inc E W 3rd & Somerset Sts Philadelphia 33 Pa "Textilene Sunsure" (Fibre)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Naugalite"
Wellington Sears Co 65 Worth St New York 13 N Y
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich

## LININGS, Transmission

All-O-Matic Mfg Corp 2099 Jericho Turnpike New Hyde Park N Y (Automatic)
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron 17 Ohio (Automatic)
Johns-Manville 22 E 40th St N Y 16 N Y

**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich**

World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

## LINKS, Spring Shackle

Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"

**LINKS, STEERING—See Connectors, Steering**

**LINOLEUM — See Coverings, Floor (Bus or Truck)**

## LOADERS, Truck (Elevating Tailgate)

(Hydraulically-powered from truck engine)

Anthony Co Streator Ill "Lift-Gate"
Cemco Industries Inc Galion Ohio
Converto Mfg Co Third & Green Sts Cambridge City Ind "Converto-Wood"
Curtis Automotive Devices Inc PO Box 297 Westfield Ind "Masterloader" (Electric)
Daybrook Hydraulic Div Young Spring & Wire Corp Bowling Green Ohio "Daybrook Power Gate"
Galion Allsteel Body Co 605 S Market St Galion Ohio "Galion Loadevator"
Gar Wood Industries Inc Wayne Mich "Garwood-St Paul Frate Gate"
Heil Co 3000 W Montana St Milwaukee 1 Wis "Helloader" (Hydraulic)
Hercules Steel Products Co 500 Sherman St Galion Ohio
Marion Metal Products Co Cheney Ave Marion Ohio "Marion Hydrogate"
Midwest Body & Mfg Div Electrographic Corp S Central St Paris Ill
Minneapolis Freeman Mfg Co 5610 W 36th St Minneapolis 16 Minn
Perfection Steel Body Co S East St Galion Ohio
Revolvator Co U S Route 1 at 86th St North Bergen N J
Santa Anita Mfg Corp 4961 N Double Dr Temple City Calif "Venco" (Sole distributors Collins Associates 3318 Glenmore Ave Cincinnati 11 Ohio)
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio (Also side loaders also garbage loader)
Watson Co H S 1316 67th St Emeryville 8 Calif "Watson Weight-lifter"

## LOADERS and UNLOADERS, Automatic (For Presses, Die Casting and Welding Machines, Shears, etc.)

Allied Research Products Inc 4004 E Monument St Baltimore 5 Md "Wagner"
Die & Automation Inc 5353 Dixie Highway Hamilton Ohio
Gleason Works 1000 University Ave Rochester 3 N Y (Press unloaders)
Hautau-mation Inc 721 Wanda St Ferndale 20 Mich

**MICHIGAN TOOL CO Gear-O-Mation Div 7171 McNichols Rd E Detroit 12 Mich**

Murray-Way Corp Maple Rd E Birmingham Mich

## LOADERS and UNLOADERS, Automatic—continued

National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"
Sahlin Engrg Co 750 Maple Rd Birmingham Mich "Sahlin Iron Hand" (Unloaders)
Sesco Inc 8881 Central Ave Detroit 4 Mich (Presses)
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich (For crankshaft lathes)

**LOCK BOLTS—See Bolts, Lock**

**LOCK NUTS—See Nuts, Lock and Self-Locking**

**LOCK SWITCHES—See Locks, Ignition**

**LOCK WASHERS—See Washers, Lock; also Nuts, Lock and Self-Locking**

## LOCKS, Brake (Hill Holding)

Diamond-U Products 8459 Dearborn Ave South Gate Calif "Hold-A-Car"
Minnesota Automotive Inc 1101 N Front St Mankato Minn "Mico"
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo "NoRol"

## LOCKS, Door (Auto )

Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill
Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis
Douglas & Lamson Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio "Eberhard Clamptite" (Door and tailgate lock for trucks)
Ferro Stampings Co 1367 Franklin St Detroit 7 Mich
Hancock Mfg Co 225 N Horton St Jackson Mich
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (Truck body)
Hurd Lock & Mfg Co Almont Mich
Independent Lock Co 49 Daniels St Fitchburg Mass "Ilco"
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Saf-T-Lok"
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Door deck lid lift gate and tailgate)
Trico Products Co 817 Washington St Buffalo 3 N Y (Also power operated rear deck lid release)

## LOCKS, Ignition

Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Detroit Master Products Co 16490 Woodward Ave Detroit 3 Mich "DMP"
Eagle Lock & Screw Co S Main St Terryville Conn
Feedco Products Inc 36-08 33rd St Long Island City 6 N Y
General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco"
Hurd Lock & Mfg Co Almont Mich
Independent Lock Co 49 Daniels St Fitchburg Mass "Ilco"
Mitchell Special Div Industrial Enterprises Inc Shelmire & Edmund Sts Philadelphia 36 Pa "Mitchellock"

## LOCKS, Nut

American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa "Bartley" "OS"
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
**PALNUT CO 00-A Glen Rd Mountainside N J "Pushnut"**
Tinnerman Products Inc 8700 Brookpark Rd Cleveland Ohio "Speed Grip"

## LOCKS, Trailer

Bartlett Trailer Corp 3080 Archer Ave Chicago 8 Ill

**LOCKS, VALVE SPRING RETAINER—See Keys, Valve Stem**

**LOW AIR PRESSURE WARNING SWITCHES (Trucks)—See Switches, Low Air Pressure Warning (Trucks)**

**LUBRICANT ADDITIVES—See Additives, Oil and Lubricant**

## LUBRICANTS, Gear

Elco Lubricant Corp Jennings Rd & Denison Ave Cleveland 9 Ohio
Kendall Refining Co 77 N Kendall Ave Bradford Pa
King Graphite Products Inc 21949 S Telegraph Rd Trenton Mich "KGP"
Krylon Inc Ford & Washington Sts Norristown Pa "Tenac"
Lubrication Engineers Inc 2807 Race St Ft Worth 11 Tex "Almasol"
Monsanto Chemical Co Petroleum Chemicals Dept St Louis 66 Mo (Oil)
Phillips Petroleum Co Bartlesville Okla "Philube"
Shell Oil Co 50 W 50th St New York 20 N Y "Dentax" "Spirax"
Socony-Mobil Oil Co 150 E 42nd St New York N Y "Mobilube" (Sole distributors Mobil Oil Co 150 E 42nd St N Y 17 N Y)
Sun Oil Co 1608 Walnut St Philadelphia 3 Pa "Sunoco"
Warren Refining & Chemical Co 5151 Denison Ave Cleveland 2 Ohio "Buxtrux" "Plastigear" "Plastilube"

**LUBRICATING GRAPHITE—See Graphite, Lubricating**

## LUBRICATORS, Air Line

Anker-Holth Div of Wellman Engrg Co 2723 Connors St Port Huron Mich
Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP"
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Texas
DeVilbiss Co 300 Phillips Ave Toledo 1 Ohio
Gardner-Denver Co S Front St Quincy Ill
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill "Airliner"
Hanna Engrg Works 1765 Elston Ave Chicago 22 Ill
Hannifin Co 543 S Wolf Rd Des Plaines Ill "Crown"
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
Modernair Corp 400 Preda St San Leandro Calif
Norgren Co C A 3400 S Elati St Englewood Colo (Machinery cylinder and power tools)
S-P Mfg Corp 30201 Aurora Rd Solon Ohio
**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite Tri-Duty"**
Watts Regulator Co 10 Embankment St Lawrence Mass.
Wilkerson Corp 1601 W Girard Ave Englewood Calif "Atomizer" "Micro-Mist"
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## LUBRICATORS, Hand

**(Including type commonly known as grease and oil guns; also high pressure type; see also Lubricators (Portable) Air, Electric and Hand) (High Pressure) for car lubricators see Pumps, Oil Circulating; also Fittings, Lubricating)**

Balcrank Inc Disney St nr Marburg Cincinnati Ohio
Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J
Bowen Products Corp Auburn N Y
Coil Mfg Co 1013 N Fares Ave Evansville 11 Ind (Universal joint, clutch and shock absorber)
De Vilbiss Co 300 Phillips Ave Toledo 1 Ohio
Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J "Graph-Air" & "Graphojet" (Graphite)
Gilbert & Barker Mfg Co Cold Spring Ave West Springfield Mass "Gilbarco"
Gray Co 60 11th Ave N E Minneapolis 13 Minn "Graco"
Grover Mfg Corp 850 E Valley Blvd San Gabriel Calif
Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Handi-Lubers"
Noera Mfg Co Div of Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Plews Oiler Inc 701 S Seventh St Minneapolis 15 Minn
**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite"**
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wood Co John Bennett Pump Div Broadway & Wood Sts Muskegon Mich "Bennett"

## LUBRICATORS, For Autos, Trucks, Trailers and Buses (Central System)

Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo "Multi-Luber" (Automatic)
**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite Accumite"**

## LUBRICATORS, For Machinery (Central System)

Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J
**EATON MFG CO Farval Div 3300 E 80th St Cleveland 4 Ohio "Farval"**
Fauver Co J N 49 W Hancock St Detroit 1 Mich "Oil-Air"
Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Centro-Matic" "Centr-Oiler" "CentrOluber" "Lubriguns"
Madison-Kipp Corp 201 Waubesa St Madison Wis
**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite Thermo Aire" "Alemite Accumite"**
Trico Fuse Mfg Co 2948 N 5th St Milwaukee 12 Wis

## LUBRICATORS, Portable (Air, Electric and Hand) (High Pressure)

Aro Equipment Corp Bryan Ohio (Hand and electric)
Balcrank Inc Disney St near Marburg Cincinnati 9 Ohio (Hand and electric)
Bijur Lubricating Corp 151 W Passaic St Rochelle Park N J (Air)
Gray Co 60 11th Ave N E Minneapolis 13 Minn "Graco" (Air)
Grover Mfg Corp 850 E Valley Blvd San Gabriel Calif (Air)
Lincoln Engineering Co 4010 Goodfellow Blvd St Louis 20 Mo "Lincoln Porto-Pak" (Hand; "Autolube"; "Powerlubers" air); "Lubriguns" (air and electric)
Plews Oiler Inc 701 S Seventh St Minneapolis 15 Minn (Hand)
**STEWART-WARNER CORP Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite"**
Universal Lubricating Systems Inc 747 Allegheny Ave Oakmont Pa (Hand)
Wilsons Sons Inc William M Eighth St Franconia Ave Lansdale Pa "Gasboy" (Hand)

## LUGS, Soldering

Cinch Mfg Corp 1026 S Homan St Chicago 24 Ill
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Stronghold Screw Products Inc 203 W Hubbard St Chicago 10 Ill
Tweco Products Inc Boston at Mosely Sts Wichita 1 Kans
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

## LUGS, Solderless

Burndy Corp Omaton Div Norwalk Conn "Hydent"
E T C Inc 990 E 67th St Cleveland 3 Ohio
Frankel Connector Co 27 Vestry St N Y 13 N Y
Kliegl Bros Universal Electric Stage Lighting Co 321 W 50th St New York N Y
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Tweco Products Inc Boston at Mosley Sts Wichita 1 Kans
Vaco Products Co 317 E Ontario St Chicago 11 Ill "Lynn"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo

**MACHINE TOOL FEEDERS—See Feeds, Machine Tool**

## MACHINE WORK TO ORDER

**(See also Contract Work)**

Alten Foundry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Dodge Steel Co 6501 State Rd Philadelphia 35 Pa
Govro-Nelson Co 1931 Antoinette St Detroit 8 Mich
Grand Haven Brass Foundry 230 N Hopkins St Grand Haven Mich
Hardinge Mfg Co 240 Arch St York Pa
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Lewthwaite Machine Co T H 324 E 47th St N Y 17 N Y
Lycoming Div Avco Corp 550 S Main St Stratford Conn
Ohio Piston & Machining Co 11786 Superior Ave NE Cleveland 6 Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa
Standard Brass Works 1810 W St Paul Ave Milwaukee Wis
Stolitzka & Son Frank J 231 N Adams St Akron 4 Ohio
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio

**MACHINERY SPACERS—See Spacers, Machinery**

## MACHINES, Automatic Assembly

Barth Corp 12650 Brookpark Rd Cleveland 30 Ohio
Bodine Corp 317 Mt Grove St Bridgeport 5 Conn
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Century-Detroit 6101 Concord Ave Detroit 11 Mich
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP" "Magnamatic"
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex
**CROSS CO 17801 E 14 Mile Rd Fraser Mich "Transfer-matic"**
Detroit Power Screwdriver Co Dept 60-AIPG 2801 W Fort St Detroit 16 Mich (For nuts screws studs washers etc; also selective parts; and standard and special)
Dixon Automatic Tool Inc 2300 23rd Ave Rockford Ill
Ferguson Machine Corp 7818 Maplewood Industrial Ct St Louis 17 Mo "Pressembler"
Gilman Engrg & Mfg Co 305 W Eastern Ave Janesville Wis
Hautau-mation Inc 721 Wanda St Ferndale 20 Mich
Ingersoll-Rand Co 11 Broadway N Y 4 N Y (Nuts and screws)
Kent-Owens Machine 958 Wall St Toledo 10 Ohio
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill (Bearings)
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Swanson-Erie Corp 814 E Eighth St Erie Pa

## MACHINES, Automatic Transfer (Production Work)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"
Bausch Machine Tool Co 156 Wason Ave Springfield 7 Mass
**BUHR MACHINE TOOL CO 839 Green St Ann Arbor Mich "Economatic"**
**CENTRI-SPRAY CORP 39001 Schoolcraft Rd Livonia Mich**
**CINCINNATI MILLING MACHINE CO Special Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Clearing Machine Corp 6499 W 65th St Chicago 38 Ill
Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich
**CROSS CO 17801 E 14 Mile Rd Fraser Mich "Transfer-matic"**
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
Ferguson Machine Corp 7818 Maplewood Industrial Ct St Louis 17 Mo "Ferguson Trans-O-Mator"
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio "Footburt"
**GREENLEE BROS & CO 1702 Mason Ave Rockford Ill**
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass "Bore-Matic"**
Industrial Metal Products Corp 3417 W St Joseph St Lansing 1 Mich "Impco"
Ingersoll Milling Machine Co Rockford Ill
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
Kent-Owens Machine Co 958 Wall St Toledo 10 Ohio
Kingsbury Machine Tool Corp Laurel St Keene N H
**LAMB CO F Jos 5663 E Nine Mile Rd Detroit 34 Mich**
La Salle Machine Tool Inc 3840 E Outer Dr Detroit 34 Mich
LeMarie Machine Tool Co 2657 S Telegraph Rd Dearborn Mich
Michigan Special Machine Co 11449 Timken Ave Warren Mich
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
Motch & Merryweather Machinery Co 1250 E 222nd St Cleveland 7 Ohio
National Automatic Tool Co S 7th & N Sts Richmond Ind "Natco"
**SNYDER CORP 3400 E Lafayette Ave Detroit 7 Mich**
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago 19 Ill "Transmat"**
Vulcan Tool Co 730 Lorain Ave Dayton 10 Ohio "Vulcamatic"

## MACHINES, Balancing (Industrial)

**(For Balancing ways—see Ways, Balancing)**

Bear Mfg Co 21 St & Fifth Ave Rock Island Ill (Static and dynamic)
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY "G-E"
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis (Static or dynamic)**
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Dynamic for crankshaft and driveshaft)
Micro-Poise Engrg & Sales Co 14851 Grand River Ave Detroit 27 Mich
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio (Automatic piston)
Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa "Electrodyne"
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich (Connecting rod)
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill (Electronic for crankshafts etc)
Sundstrand American Broach Div of Sundstrand Corp 415 W Huron St Ann Arbor Mich
Taylor Dynamometer & Machine Co 6411 River Parkway Milwaukee 13 Wis "Hi-Eff"
Toledo Scale Div of Toledo Scale Co Telegraph Rd Toledo 12 Ohio

## MACHINES, Balancing (Wheel)

Bean Div Food Machinery & Chemical Corp John 1305 S Cedar St Lansing 4 Mich "John Bean" "Visubalancer" (Dynamic)
Bear Mfg Co 21st St & Fifth Ave Rock Island Ill
Bender Equipment Co J H 5430 Tweedy Blvd South Gates Calif
Bennett-Feragen 1408 Jerome St Niles Mich
Big Four Industries Inc Maineville (Foster) Ohio
Coats Co 3001 Fifth Ave S Fort Dodge Iowa (Sole distributors John P Hennessy Sales Co 12 Depot Sq Englewood N J)
Hunter Engrg Co Hunter Ave & Ladue Rd St Louis 24 Mo "Tune-In"
Manbee Equip Div Bear Mfg Co P O Box 607 Rock Island Ill "Balance Master"
Micro-Poise Engrg & Sales Co 14851 Grand River Ave Detroit 27 Mich
Morgan Wheel & Equipment Co 2007 St Mary's Ave Omaha 2 Neb "Moweco"
Schildmeier Co H C 312 N Senate Ave Indianapolis 4 Ind "Seal Line"
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago Ill "Alemite" (Electronic)
Weaver Mfg Div Dura Corp 2178 S Ninth St Springfield Ill (Dynamic)

## MACHINES, Bar (Automatic)

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Cleveland Automatic Machine Co 4932 Beech St Norwood Cincinnati 12 Ohio (Single spindle)
Cone Automatic Machine Co Windsor Vt
**GREENLEE BROS & CO 1702 Mason Ave Rockford Ill**
Motch & Merryweather Machinery Co 1250 E 222nd St Cleveland 7 Ohio
National Acme Co 170 E 131st St Cleveland 8 Ohio "Acme-Gridley"
**NEW BRITAIN MACHINE CO NEW BRITAIN - GRIDLEY MACHINE DIV South St New Britain Conn**
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

## MACHINES, Bender-Cutter (Compressed Air, Hydraulic or Hand)

Richards Co J A 903 Pitcher St Kalamazoo Mich "Multiform"

## MACHINES, Bending

**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y**
Dreis & Krump Mfg Co 7424 Loomis Blvd Chicago 36 Ill "Chicago"
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Il
Grotnes Machine Works Inc 5454 N Wolcott Ave Chicago 40 Ill
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y
Pines Engrg Co 601 Walnut St Aurora Ill
Richards Co J A 903 N Pitcher St Kalamazoo Mich "Multiform"
Taylor-Winfield Corp 1052 Mahoning Ave NW Warren Ohio
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich

## MACHINES, Bonding (Adhesive)

Modern Industrial Engrg Co 14230 Birwood Ave Detroit 38 Mich

## MACHINES Boring (Cam)

**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich**

## MACHINES, Boring (Cylinder)

**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
Moline Tool Co 102 20th St Moline Ill
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

## MACHINES, Boring, Drilling and Milling (Horizontal)

Buhr Machine Tool Co 839 Greene St Ann Arbor Mich "Economatic"
Bullard Co 286 Canfield Ave Bridgeport 9 Conn
Consolidated Machine Tool Div Farrell-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Sellers"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-matic"
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Gray Co G A 3611 Woodburn Ave Cincinnati Ohio (Floor and planer type)
Index Machine & Tool Co 543 N Mechanic St Jackson Mich
Ingersoll Milling Machine Co Rockford Ill
James Engrg & Mchy Co 11368 Allen Rd Taylor Mich "Mighty-Mac" (Portable)
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
Kempsmith Machine Co 1819 S 71 St West Allis 14 Wis "Defiance"
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Lucas Machine Div New Britain Machine Co 12302 Kirby Ave Cleveland 8 Ohio
Michigan Special Machine Co 11449 Timken Ave Warren Mich
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
**NEW BRITAIN MACHINE CO NEW BRITAIN - GRIDLEY MACHINE DIV South St New Britain Conn**
Portage Machine Co 1025 Sweitzer Ave Akron 11 Ohio
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"

## MACHINES, Boring, Drilling and Tapping

Barnes Co W F & John 301 S Water St Rockford Ill
Buhr Machine Tool Co 839 Greene St Ann Arbor Mich "Economatic" (Horizontal & vertical)
Bullard Co 286 Canfield Ave Bridgeport 2 Conn (Vertical)
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 10 Wis "Roto-Matic"
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio
Giddings & Lewis Machine Tool Co Kaukauna Div Kaukauna Wis
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass**
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

## MACHINES, Boring and Facing

Barnes Co W F & John 301 S Water St Rockford Ill
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Consolidated Machine Tool Div Farrel-Birmingham Co 566 Blossom Rd Rochester 10 N Y "Betts"
**CROSS CO 17801 E 14 Mile Rd Fraser Mich "Transfer-matic"**
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
Fitchburg Engineering Corp Cleghorn St Fitchburg Mass
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
Moline Tool Co 102 20th St Moline Ill "Hole Hog"
Simmons Machine Tool Corp N Broadway Albany 1 N Y (Horizontal)
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## MACHINES, Boring (Horizontal)

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"
Bullard Co 286 Canfield Ave Bridgeport 9 Conn "Dynamill"
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts" "Newton"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
Fitchburg Engineering Corp Cleghorn St Fitchburg Mass
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass**
Le Blond Machine Tool Co R K Madison & Edwards Rds Cincinnati 8 Ohio "Le Blond-Carlstedt"
Lucas Machine Div New Britain Machine Co 12302 Kirby Ave Cleveland 8 Ohio
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
National Automatic Tool Co S Seventh & N Sts Richmond Ind
Olofsson Corp 2727 Lyons Ave Lansing 2 Mich
Pope Machinery Corp 261 River St Haverhill Mass
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Supermill"
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y
Simplex Machine Tool Corp N 56 W 13760 Carman Ave Butler Wis
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## MACHINES, Boring (Main Bearing and Connecting Rod)

Cedar Rapids Engineering Co 902 17th NE St Cedar Rapids Iowa "Kwik-Way" (Main bearing)
Drillmation Co 6500 E 11 Mile Rd Center Line Mich (Connecting rod)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Main and camshaft bearing)
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn
Winona Tool Mfg Co 1430 W Broadway Winona Minn "Wi-To-Co"

## MACHINES, Boring and Milling

Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill
De Vilbiss Machine Co Fair St Royal Oak Mich "Spiramatic Jigmill" (Horizontal)
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill (Boring and profiling)
Fitchburg Engineering Corp Cleghorn St Fitchburg Mass
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
Knight Machinery Co W B 3920 W Pine St St Louis 8 Mo
S&S Machinery Co 140 53rd St Brooklyn 32 N Y "Supermill"
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
Wean Equipment Corp 22828 Lakeland Blvd Euclid Cleveland 17 Ohio

## MACHINES, Boring (Piston Pin Bushing)

Cedar Rapids Engrg Co 902 17th St NE Cedar Rapids Ia "Kwik-Way"
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn

## MACHINES, Boring and Turning

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Clausing" (Semi-automatic)
Axelson Mfg Co P O Box 58335 Vernon Sta Los Angeles 58 Calif
Bullard Co 286 Canfield Ave Bridgeport 9 Conn (Vertical)
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts" & "Newton"
**CROSS CO 17801 E 14 Mile Rd Fraser Mich**
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO" (Precision)**
Frauenthal Div Kaydon Engrg Corp Muskegon Mich (Vertical)
**HEALD MACHINE Co 10 New Bond St Worcester 6 Mass "Bore-Matic"**
King Machine Tool Div American Steel Foundries 1150 Tennessee Ave Cincinnati 29 Ohio "King" (Vertical)
Motch & Merryweather Mchy Co 1250 E 222nd St Cleveland 7 Ohio (Vertical)
**NEW BRITAIN MACHINE CO New Britain-Gridley Machine Div South St New Britain Conn (Precision)**
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

## MACHINES, Boring Turning and Facing (Horizontal)

Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
**CROSS CO 17801 E 14 Mile Rd Fraser Mich**
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass "Bore-Matic"**
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "J&L"
Monarch Machine Tool Co 402 Oak St Sidney Ohio (Contour)
National Automatic Tool Co S 7th & N Sts Richmond Ind "Natco"
Olofson Corp 2727 Lyon Ave Lansing 2 Mich
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

## MACHINES, Boring (Vertical)

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
Barnes W F & John 301 S Water St Rockford Ill
Bullard Co 286 Canfield Ave Bridgeport 9 Conn
Consolidated Machine Tool Div Farrell-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts" "Colburn" "Sellers"
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO"**
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio "Footburt"
Gaynes Engrg Co 1642 W Fulton St Chicago 12 Ill (Multiple spindle)
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass**
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
National Acme Co 170 E 131st St Cleveland 8 Ohio
National Automatic Tool Co S Seventh & N Sts Richmond Ind
**NEW BRITAIN MACHINE CO New Britain-Gridley Machine Div South St New Britain Conn**
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

**MACHINES, BROACH GRINDING—See Machines, Grinding (Broach)**

## MACHINES, Broaching

Apex Broach Co 6401 E Seven Mile Rd Detroit 34 Mich
Chicago Pneumatic Tool Co 6 E 44th St New York 17 N Y "CP" (Portable)
**CINCINNATI MILLING MACHINE CO Milling Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
**CINCINNATI MILLING MACHINE CO Special Machine Div 4701 Warburg Ave Cincinnati 9 Ohio**
Colonial Broach & Machine Co P O Box 37 Harper Sta Detroit 13 Mich
Detroit Broach & Machine Co 950 S Rochester Rd Rochester Mich
Ekstrom, Carlson & Co 1439 Railroad Ave Rockford Ill
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Lapointe Machine Tool Co 34 Tower St Hudson Mass "Lapointe Hudson"
Pioneer Broach Co 6434 E Telegraph Rd Los Angeles 22 Calif
**SUNDSTRAND AMERICAN BROACH DIV OF SUNDSTRAND CORP 415 W Huron St Ann Arbor Mich "Sunstrand-American"**
Van Norman Machine Co 3640 Main St Springfield 7 Mass
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

## MACHINES, Brushing

Acme Mfg Co 1400 E Nine Mile Rd Farndale Detroit 20 Mich
**OSBORN MFG CO 5401 Hamilton Ave NE Cleveland 14 Ohio**

## MACHINES, Buffing and Polishing

**(See also Machines, Flexible Shaft (Portable Electric))**

Acme Mfg Co 1400 E Nine Mile Rd Ferndale Detroit 20 Mich
Automatic Buffing Machine Co 222 Chicago St Buffalo 4 N Y
Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP" "Hicycle" "Super Cycle" "Universal"
Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio
Divine Bros Co 200 Seward Ave Utica 1 N Y
Dixon Inc William 32 E Kinney St Newark 1 N J
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
Gravi-i-Flo Corp 400 Norwood Ave Sturgis Mich "Spin-Finish"
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich
Hanson-Van Winkle-Munning Co Matawan N J "H-VW-M"
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Industrial Metal Products Corp 3417 W St Joseph St Lansing 1 Mich "Micro-Finish" (Shaft polishing)
L & R Mfg Co 577 Elm St Kearny N J
Murray-Way Corp P O Box 180 Maple Rd E Birmingham Mich "Micro-Polish"
Packer Machine Co 456 Center St Meriden Conn "Packermatic"
Porter-McLeod Machine Tool Co Prospect St Hatfield Mass
Reynolds Electric Co 3000 River Rd River Grove Ill "Reco"
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington and Pittsburgh 8 Pa "Delta-Rockwell"
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich.
Thor Power Tool Co 175 State St Aurora Ill
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Valley Electric Corp 4221 Forest Park Blvd St Louis Mo

## MACHINES, Cavity Sinker (Electrolytic)

Anocut Engrg Co 631 W Washington Blvd Chicago 6 Ill

## MACHINES, Centering

Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"
Hause Machine Inc 809 S Pleasant St Montpelier Ohio
Sunstrand Machine Tool Div of Sunstrand Corp Belvidere Ill

**MACHINES, CENTERING and DRILLING—See Machines, Drilling and Centering**

## MACHINES, Chilling (Industrial)

Cincinnati Sub Zero Products 3932 Reading Rd Cincinnati 29 Ohio "Sub-Zero"
Tenney Engrg Inc 1090 Springfield Rd Union N J
Webber Engrg Corp P O Box 217 Indianapolis 6 Ind

## MACHINES, Chucking (Multiple Spindle)

Baird Machine Co 1700 Stratford Ave Stratford, Conn
Bullard Co 286 Canfield Ave Bridgeport 9 Conn "Contin-U-Matic" "Mult-Au-Matic"
Cone Automatic Machine Co Winsdor Vt
National Acme Co 170 E 131 st St Cleveland 8 Ohio "Acme-Gridley" (Automatic)
**NEW BRITAIN MACHINE CO New Britain-Gridley Machine Div South St New Britain Conn (Automatic)**
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio (Automatic)

## MACHINES, Chucking (Single Spindle)

National Acme Co 170 E 131 St Cleveland 8 Ohio "Chuck-Matic" (Automatic) "Acme-Gridley"
Potter & Johnson Co—See Pratt & Whitney Co
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Potter & Johnson" (Automatic)
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio (Automatic)

## MACHINES, Coating

Consolidated Vacuum Corp 1775 Mt Read Blvd Rochester 3 N Y (Vacuum)
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio (Flow and dip)**
**MAHON CO R C 6565 E Eight Mile Rd Detroit 34 Mich (Flow dip and spray)**
Murray-Way Corp Maple Ave E Birmingham Mich (Roller)

## MACHINES, Coiling (Spring)

Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn "C & M"
Sleeper & Hartley Inc 335 Chandler St Worcester 2 Mass

## MACHINES, Contouring

Bath Co Cyril 34200 Aurora Rd Solon Ohio
Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich

## MACHINES, Core Making (Foundry)

**OSBORN MFG CO 5401 Hamilton Ave NE Cleveland 14 Ohio**

## MACHINES, Crimping (For Solderless Connections)

AMP Inc Eisenhower Blvd Harrisburg Pa

## MACHINES, Cutting-Off

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio**
Allison-Campbell Div of American Chain & Cable Co 929 Connecticut Ave Bridgeport 2 Conn "Campbell" "Sever-All"
American Instrument Co 8030 Georgia Ave Silver Spring Md
Bardons & Oliver Inc 1133 W Ninth St Cleveland 13 Ohio (Automatic and semi-automatic)
Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio
Cone Automatic Machine Co Windsor Vt
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Continental Machine Co 2345 W Nelson St Chicago 18 Ill
de Sanno & Son A P Wheatland St Phoenixville Pa "Radiac"
De Walt Inc Fountain Ave Lancaster Pa
Do All Co 254 N Laurel Ave Des Plaines Ill
Grob Inc Grafton Wis
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y
**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio**
Modern Machine Tool Co 2005 Losey Ave Jackson Mich
O'Neil-Irwin Mfg Co Lake City Minn "Di-Acro"
Porter-McLeod Machine Tool Co., Prospect St Hatfield Mass "Higley" "Porter-Mc Leod"
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn "Bar-matic"
Racine Hydraulics & Machinery Inc 2000 Albert St Racine Wis
Richards Co J A 903 N Pitcher St Kalamazoo Mich "Multiform"
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington and Pittsburgh 8 Pa "Delta-Rockwell"
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Tabor Mfg Co Div of Turbo Machine Co 840 W Main St Lansdale Pa "Tabor Abrasive" (Abrasive wheel)
Tannewitz Forks Inc 315 Front Ave N W Grand Rapids 2 Mich (Abrasive)
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich (Automatic)
Ty-Sa-Man Mchry Co 1006 White Ave Knoxville 1 Tenn
United Engrg & Fdry Co Wilmington Plant P O Box 1108 Wilmington 99 Del "Bridgeport Abrasaw" (Abrasives)
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Wells Mfg Corp E on Highway M-60 Three Rivers Mich
Yoder Co 5553 Walworth Ave Cleveland 2 Ohio

**MACHINES, DE-BURRING — See Machines Mechanical Finishing and De-burring**

## MACHINES, Degreasing and Washing (Metal Parts)

Accoustica Associates Inc Shore Rd Glenwood Landing L I N Y (Ultrasonic)
Aeroil Products Co 69 Wesley St South Hackensack N J
Alcar Instruments Inc 411 Robbin Ave Trenton 8 N J (Ultrasonic)
Alvey-Ferguson Co 3131 Disney St Oakley Cincinnati 9 Ohio "A-F"
Barrett Co Leon J 1477 Grafton St Worcester Mass (Centrifugal)
Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo
Bendix Corp Pioneer-Central Div Sonic Energy Products 2754 Hickory Grove Ave Davenport Iowa (Ultrasonic)
Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 Ill "Niagara" "Blakeslee"
Branson Ultrasonic Corp 37 Brown House Rd Stamford Conn "Sonogen" (Ultrasonic)
**CENTRI-SPRAY CORP 39001 Schoolcraft Rd Livonia Mich**
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
Circo Co 51 Terminal Ave Clark N J
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill
Curtiss-Wright Corp Princeton Div PO Box 110 Princeton N J (Ultrasonic)
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Detrex Gyro;" "Hydrasonic" "Soniclean" (Ultrasonic)**
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
De Vilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich (Combined belt conveyorized washer and dryer)
Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"
Eclipse Fuel Engineering Co 1111 Buchanan St Rockford Ill
Graymills Corp 3705 N Lincoln Ave Chicago 13 Ill
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Industrial Washing Machine Corp 32 Main St Matawan N J (Combined belt conveyorizer washer and dryer)
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
J P Mfg Co 330 E Front St Youngstown 3 Ohio
Kelite Corp 1250 N Main St Los Angeles Calif
Kolene Corp 12890 Westwood Ave Detroit 23 Mich
L & R Mfg Co 577 Elm St Kearny N J
Magnus Chemical Co 185 South Ave Garwood N J "Magnus Aja-Dip" "Magnus Miji-Dip" "Magnus Aja-Lif" "Magnus Miji-Lif"
**MAHON CO R C 6565 E S Mile Rd Detroit 34 Mich (Combined belt conveyorized washer and dryer)**
Manpro Corp 1360 Hilton Rd Ferndale 20 Mich
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Narda Ultrasonics Corp 625 Main St Westbury L I N Y "SonBlaster" "Uniblast" (Ultrasonic)
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa
Phillips Mfg Co 3475 Touhy Ave Chicago 45 Ill "Phillips"; "Phillips VibraSone" (Ultrasonic)
Practical Mfg Co 2840 Fourth Ave S Minneapolis 8 Minn "Kleer-Flo"
Protectoseal Co 1920 S Western Ave Chicago 8 Ill "Air-Matic"
Ransohoff Co N 5th St at Ford Blvd Hamilton Ohio
Simplicity Engrg Co Durand 1 Mich "Simplicity Vibra-Washer"
Sprague Devices Inc 500 Huron St Michigan City Ind "Spragit" (Air operated)
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Supreme Equipment Corp 12415 Euclid Ave Cleveland 6 Ohio
Turco Products Inc 24600 S Main St North Wilmington Calif
Waukee Engrg Co 5138 N 35th St Milwaukee 9 Wis
Westinghouse Electric Corp X-Ray & Industrial Electronics Div 2519 Wilkens Ave Baltimore 3 Md (Ultrasonic)
Wilson Inc K R Arcade N Y
Winona Tool Mfg Co 1430 W Broadway Winona Minn "Wi-To-Co"

## MACHINES, Die Casting

Cleveland Automatic Machine Co 4932 Beech St Norwood Cincinnati 12 Ohio
Federal Die Casting Co 2222 Elston Ave Chicago 14 Ill
**GREENLEE BROS & CO 1702 Mason Ave Rockford Ill**
**H-P-M Div Koehring Co 23901 Aurora Rd Bedford Ohio "Cast-Master"**
Kux Machine Co 6725 N Ridge Ave Chicago 26 Ill
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Lester Engrg Co 2711 Church Ave Cleveland 13 Ohio (Sole distributors Lester-Phoenix Inc 2711 Church Ave Cleveland 13 Ohio)
Reed-Prentice Div Package Machinery Co 330 Chestnut St East Longmeadow Mass
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## MACHINES, Die Making (Steel Rules)

Richards Co J A 903 N Pitcher St Kalamazoo Mich "Atlas" "Electromatic"

## MACHINES, Die Sinking

Billings & Spencer Co 1 Laurie St Hartford 1 Conn
**CINCINNATI MILLING MACHINE CO Milling Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Gorton Machine Co George 1131 W 13th St Racine Wis
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Kux Machine Co 3924 Harrison St Chicago Ill
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Reed-Prentice Corp 677 Cambridge St Worcester Mass
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## MACHINES, Drawing (Bar and Wire)

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio "Ajax-Hogue"**
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
McKay Machine Co 825 W Federal St Youngstown 1 Ohio

## MACHINES, Drilling (Automatic)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
**BARNES DRILL CO 826 Chestnut St Rockford Ill "Barnesdril"**
Baush Machine Tool Co 156 Wason Ave Springfield Mass
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Cleereman Machine Tool Corp 601 Elizabeth St Green Bay Wis (Sole distributors Jackson-Fotsch Co 7350 W Lawrence Ave Chicago 31 Ill)
Cross Co 17801 E 14 Mile Rd Fraser Mich
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Govro-Nelson Co 1931 Antoinette St Detroit 8 Mich
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Hause Machines Inc 809 S Pleasant St Montpelier Ohio
Heald Machine Co 10 New Bond St Worcester 6 Mass "Healdril"
Hillyer Corp 331 Centennial Ave Cranford N J
Kent Machine Div Lawson & Sessions Co 113 Portage Trail Cuyahoga Falls Ohio
Kingsbury Machine Tool Corp Laurel St Keene N H
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio

## MACHINES, Drilling (Automatic)—continued

Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## MACHINES, Drilling, Bench (Hand)

North Bros Mfg Co Div Stanley Tools American St & Lehigh Ave Philadelphia 33 Pa "Yankee"

## MACHINES, Drilling, Bench (Power)

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Atlas" & "Clausing"
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Cincinnati Lathe & Tool Co Cincinnati 9 Ohio
Dumore Co 1300 17th St Racine Wis
Leland-Gifford Co Box 989 Worcester Mass
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa

## MACHINES, Drilling (Heavy Duty)

Baker Bros Inc P O Box Sta F Toledo 10 Ohio
**BARNES DRILL CO 826 Chestnut St Rockford Ill**
Boice-Crane Co., 930 W Central Ave Toledo 6 Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Colburn"

## MACHINES, Drilling (Horizontal)

(See also Machines, Boring, Drilling and Milling [Horizontal])

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
**BARNES DRILL CO 826 Chestnut St Rockford Ill**
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Kent Machine Div Lamson & Sessions Co 113 Portage Trail Cuyahoga Falls Ohio
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Le Maire Machine Tool Co 2657 S Telegraph Rd Dearborn Mich
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio (Duplex)
Morton Mfg Co Broadway and Hoyt Sts Muskegon Heights Mich
National Automatic Tool Co S Seventh & N Sts Richmond Ind
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y
Snow Mfg Co 435 Eastern Ave Bellwood Ill
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## MACHINES, Drilling (Multiple Spindle Adjustable)

Baush Machine Tool Co 156 Wason Ave Springfield Mass
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Cincinnati Lathe & Tool Co Cincinnati 9 Ohio
Cross Co 17801 E 14 Mile Rd Fraser Mich
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"

## MACHINES, Drilling (Multiple Spindle Horizontal and Vertical)

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich "Atlas" "Clausing" (Vertical)
Avery Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
**BARNES DRILL CO 826 Chestnut St Rockford Ill "Barnesdril" (Vertical)**
Baush Machine Tool Co 156 Wason Ave Springfield Mass
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y**
Buhr Machine Tool Co., 839 Greene St Ann Arbor Mich
Cleereman Machine Tool Corp 601 Elizabeth St Green Bay Wis (Sole distributors Jackson-Fotsch Co 7350 W Lawrence Ave Chicago 31 Ill)
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Colburn" (Vertical)
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Drillmation Co 6500 E 11 Mile Rd Center Line Mich
Fameo Machine Co 3100 Sheridan Rd Kenosha Wis
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio "Footburt"
Fosdick Machine Tool Co Blue Rock & Apple Sts Cincinnati 23 Ohio
Fox Engrg Co 1336 Francis St Jackson Mich
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
Kent Machine Div Lamson & Sessions Co 113 Portage Trail Cuyahoga Falls Ohio (Horizontal)
Kingsbury Machine Tool Corp Laurel St Keene N H
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Leland-Gifford Co Box 989 Worcester Mass
LeMaire Machine Tool Co 2657 S Telegraph Rd Dearborn Mich (Vertical)
McKay Machine Co 825 W Federal St Youngstown 1 Ohio "McKaymatic"
Michigan Special Machine Co 11449 Timken Ave Warren Mich
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Pratt & Whitney Co Charter Oak Blvd West Hartford Conn
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Root Co B M Prospect & Sherman Sts York Pa
Sibley Machine & Foundry Corp 206 E Tutt St South Bend 23 Ind (Vertical)
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
**SUNSTRAND MACHINE TOOL DIV SUNSTRAND CORP Belvidere Ill**
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa (Vertical)
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

## MACHINES, DRILLING (PORTABLE)—See Drills, Portable

## MACHINES, Drilling (Radial)

American Tool Works Co Pearl & Eggleston Aves Cincinnati 2 Ohio
Carlton Machine Tool Co Spring Grove Ave & Meeker St Cincinnati Ohio
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill
Foote-Burt Co., 13000 St Clair Ave Cleveland 3 Ohio "Hammond"
Fosdick Machine Tool Co Blue Rock & Apple Sts Cincinnati 23 Ohio
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis (Universal)
Morris Machine Tool Co 933 Harriet St Cincinnati 3 Ohio "Mor-Speed"
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Speedmaster"
Shopmaster Div Energy Mfg Co 100 N Main St Monticello Iowa
Veet Industries 25753 Groesbeck Highway E Detroit Mich
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Western Machine Tool Works 255 W Ninth St Holland Mich

## MACHINES, Drilling (Sensitive)

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y**
Dumore Co 1300 17th St Racine Wis
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio "Sipp"
Fosdick Machine Tool Co Blue Rock & Apple Sts Cincinnati 23 Ohio "Fosdick" "Fosmatic"
Hamilton Tool Co 9th & Hanover Sts Hamilton Ohio "Hamilton" & "Varimatic"
High Speed Hammer Co 313 Norton St Rochester 21 N Y
Leland-Gifford Co Box 989 Worcester Mass
Lennox Tool & Machine Builders 651 N Baxter St Lima Ohio "Lennox-Demco"
National Automatic Tool Co S Seventh & N Sts Richmond Ind
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Sibley Machine & Foundry Corp 206 E Tutt St South Bend 23 Ind
Taylor Dynamometer & Machine Co 6411 River Parkway Milwaukee 13 Wis "Hi-Eff"

## MACHINES, Drilling (Single Spindle)

**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y "Buffalo RPMster"**
**MOLINE TOOL CO 102 20th St Moline Ill**

## MACHINES, Drilling (Ultrasonic)

Acoustica Associates Inc Shore Rd Glenwood Landing L I N Y

## MACHINES, Drilling (Vertical)

Allen Co Chas G Barre Mass
Aurora Tool Works 6751 Merwin Ave Cincinnati 27 Ohio
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
**BARNES DRILL CO 826 Chestnut St Rockford Ill**
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Buhr Machine Tool Co 839 Greene St Ann Arbor Mich "Economatic"
Cleereman Machine Tool Corp 601 Elizabeth St Green Bay Wis (Sole distributors Jackson-Fotsch Co 7350 W Lawrence Ave Chicago 31 Ill)
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Colburn"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Dalzen Mfg Co 4600 Bree Rd St Clair Mich (Combination center grinder and drill press)
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Dremel Mfg Co 2420 18th St Racine Wis "Moto-Tool"
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio "Footburt"
Fosdick Machine Tool Co Blue Rock & Apple Sts Cincinnati 23 Ohio
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
High Speed Hammer Co 313 Norton St Rochester 21 N Y
James Engrg & Mchry Co 11368 Allen Rd Taylor Mich "Romulus"
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
National Automatic Tool Co S Seventh & N Sts Richmond Ind
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Sibley Machine & Foundry Corp 206 E Tutt St South Bend 23 Ind
Snow Mfg Co 435 Easton Ave Bellwood Ill
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"
Wales-Strippit Inc 242 Buell Rd Akron N Y
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Western Machine Tool Works 255 W Ninth St Holland Mich
Wisconsin Drill Head Co 4987 W 124th St Butler Wis

## MACHINES, Drilling and Centering

Fitchburg Engineering Corp Cleghorn St Fitchburg Mass
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y (Automatic)
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**

## MACHINES, Drilling and Grinding

Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich (Grinding)

## MACHINES, Drilling and Reaming

Agnew Machine Co 121 S Main St Milford Mich (Special types)
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 12th St Milwaukee 18 Wis "Roto-Matic"
Edlund Mchry Co Div of Harsco Corp 37 Huntington St Cortland N Y
Fox Engrg Co 1336 Francis St Jackson Mich
Morris Machine Tool Co 2001 Easton Ave Cincinnati 2 Ohio
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Swift Ohio Corp 800 S Leighton St Kenton Ohio

## MACHINES, Drilling and Tapping

Allen Co Chas G Barre Mass
Baker Bros P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill
**BARNES DRILL CO 826 Chestnut St Rockford Ill**
Baush Machine Tool Co 156 Mason Ave Springfield 7 Mass
Beckett-Harcum Co 985 W Locust St Wilmington Ohio "Beckett" (Automatic)
Bodine Corp 317 Mt Grove St Bridgeport 5 Conn (Dial type)
Buhr Machine Tool Co 839 Greene St Ann Arbor Mich "Economatic"
Burgmaster Corp Small Tool Div 13226 S Figueroa St Gardena Calif
Century-Detroit 6101 Concord Ave Detroit 11 Mich (Special)
Cleereman Machine Tool Corp 601 Elizabeth St Green Bay Wis (Sole distributors Jackson-Fotsch Co 7350 W Lawrence Ave Chicago 31 Ill)
Cleveland Tapping Machine Co Brook St Elmwood Conn
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 12 St Milwaukee 18 Wis
Edlund Machinery Co Div of Harsco Corp 37 Huntington St Cortland N Y
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio
Fox Engrg Co 1336 Francis St Jackson Mich
Govro-Nelson Co 1931 Antoinette St Detroit 8 Mich
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn (Automatic)
Hause Machines Inc 809 S Pleasant St Montpelier Ohio
Hautau-mation Inc 721 Wanda St Ferndale 20 Mich
Kaufman Mfg Co 29th St & Meadow Lane Manitowoc Wis
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Kingsbury Machine Tool Corp Laurel St Keene N H (Automatic)
Michigan Special Machine Co 11449 Timken Ave Warren Mich
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Precision Tool & Mfg Co of Illinois 1301 S Laramie Ave Cicero 50 Ill "Deka-Drill" (Multiple spindle)
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
Universal-Automatic Corp 9545 Ainslie St Schiller Park Ill
Wisconsin Drill Head Co 4987 W 124th St Butler Wis

## MACHINES, Drying (Metal Parts)

**(For drying and brightening small metal parts)**

American Laundry Machinery Co Norwood Station Cincinnati 12 Ohio
American Machine & Metals Inc Tolhurst Centrifugal Div East Moline Ill "Tolhurst"
Barrett Co Leon J 1477 Grafton St Worcester Mass (Centrifugal)
Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 Ill
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
Circo Co 51 Terminal Ave Clark N J
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich "Kem-O-Dryer"
De Vilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich (Combined belt conveyorized washer and dryer)
Drying Systems Co 1826 Foster Ave Chicago 40 Ill
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Industrial Washing Machine Corp 32 Main St Matawan N J (Combined belt conveyorized washer and dryer)
International Conveyor & Washer Corp 652 E Fort St Detroit 26 Mich
**MAHON CO R C 6565 E Eight Mile Rd Detroit 34 Mich (Combined belt conveyorized washer and dryer)**
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Paasche Airbrush Co 1709, Diversey Parkway Chicago 14 Ill
Ransohoff Co N 5th St at Ford Blvd Hamilton Ohio
Steiner-Ives Co Springfield Rd Union N J

## MACHINES, Duplicating (Metal)

James Engrg & Machinery Co 11368 Allen Rd Taylor Mich "Jemco" (Hydraulic)
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Arco" (Die-less)
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Keller"

## MACHINES, Electrical Discharge

**CINCINNATI MILLING MACHINE CO Milling Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Elox Corp of Michigan 1830 N Stephenson Highway Troy Mich

## MACHINES, Electro-Spark

Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"

## MACHINES, Expanding (Hydraulic)

Grotnes Machine Works Inc 5454 N Wolcott Ave Chicago 40 Ill

## MACHINES, Extruding

Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago 19 Ill

## MACHINES, Fabric Cutting

Eastman Machine Co 779 Washington St Buffalo N Y

## MACHINES, Fabric Drilling

Eastman Machine Co 779 Washington St Buffalo N Y

## MACHINES, Filing

**(See also Machines, Sawing and Filing)**

Grob Inc Grafton Wis (Die)
High Speed Hammer Co 313 Norton St Rochester 21 N Y
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Rice Pump & Machine Co 600 Park St Belgium Wis "Rice Milwaukee"
Sales Service Machine Tool 2363 University Ave St Paul 14 Minn "Keller"

## MACHINES, Flame Cutting

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y "Oxgraph" "Linograph" "Radiograph" "Trarograph" "Camograph"
Linde Co 270 Park Ave New York 17 N Y "Oxweld"
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG"

## MACHINES, Flash Trimming

Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich

## MACHINES, Flexible Shaft (Portable Electric)

**(Portable flexible shaft machines with attachments for grinding, polishing, sanding, etc.**

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Dixon Inc William 32 E Kinney St Newark 1 N J
Dremel Mfg Co 2420 18th St Racine Wis "Flex-O-Tool"
Dunmore Co 1300 17th St Racine Wis
Haskins Co R G 2651 W Harrison St Chicago 27 Ill
Jarvis Corp Middletown Conn
L & R Mfg Co 577 Elm St Kearny N J
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio "Martindale Motor-Flex"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn "Kellerflex"
Precise Products Corp 3715 Blue River Rd Racine Wis "Coolflex"
Remington Arms Co 939 Barnum Ave Bridgeport 2 Conn
Stow Mfg Co 443 State St Binghamton N Y
Strand Flexible Shaft Inc N A 601 S Washtenaw Ave Chicago 12 Ill
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco"

## MACHINES, Forging

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio**
Chambersburg Engrg Co Derbyshire St Chambersburg Pa (Automatic)
Hill Acme Co Acme Machinery Div 1201 W 65th St Cleveland 2 O "Acme"
National Machinery Co Tiffin Ohio

## MACHINES, Forming (Cold Roll)

Bath Co Cyril 32280 Aurora Rd Solon Ohio
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y
**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio**
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich "Roto-Flo"**
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Richards Co J A 903 N Pitcher St Kalamazoo Mich (Air operated also hand operated)
Tishken Products Co 1300 W Eight Mile Rd Detroit 37 Mich
**YODER CO 5553 Walworth Ave Cleveland 2 Ohio**

## MACHINES, Forming (Metal)

Baird Machine Co 1700 Stratford Ave Stratford Conn (Automatic for wire and ribbon)
Cincinnati Milling Machine Co Meta-Dynamics Div 4701 Marburg Ave Cincinnati 9 Ohio "Intraform" "Hydroform" "Hydrospin"
Cincinnati Shaper Co P O Box 111 Cincinnati 11 Ohio
Convair a Div of General Dynamics Corp 3165 Pacific Highway San Diego 12 Calif "Dynapak" (High-energy)
Fellows Gear Shaper Co 78 River St Springfield Mo "Fellows-Apple" (Cold)
**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio "McKaymatic"**
Michigan Tool Co 7171 McNichols Rd E Detroit 12 Mich "Roto-Flo"
Nilson Machine Co A H Bridgeport Ave Shelton Conn (Automatic for ribbon and metal)

## MACHINES, Forming (Radial Draw)

Bath Co Cyril 32400 Aurora Rd Solon Ohio

## MACHINES, Galvanizing

Barrett Co Leon J 1477 Grafton St Worcester Mass (Centrifugal)
Meaker Co 1629 S 55th Ave Chicago 50 Ill (Electro)

## MACHINES, Gear Cutting

Barber-Colman Co 1300 Rock St Rockford Ill
Farrel-Birmingham Co 97 Main St Ansonia Conn "Farrel-Sykes"
**FELLOWS GEAR SHAPER CO 78 River St Springfield Vt**
Gleason Works 100 University Ave Rochester 3 N Y "Curvic"
**GOULD & EBERHARDT Div of Norton Co Worcester 6 Mass**
**MICHIGAN TOOL CO Michigan-Lorenz Div 7171 McNichols Rd E Detroit 12 Mich "Mitco"**
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn "Mill-matic"
Waltham Machine Works 54 Sun St Waltham Mass

## MACHINES, Gear Hobbing

Barber-Colman Co 1300 Rock St Rockford Ill

### MACHINES, Gear Hobbing—continued

Fellows Gear Shaper Co 78 River St Springfield Vt "Fellows-Pfauter"
**GOULD & EBERHARDT DIV OF NORTON CO Worcester 6 Mass**
Hamilton Tool Co 9th & Hanover Sts Hamilton Ohio
Lees-Bradner Co Elmwood Ave & W 121st St Cleveland 11 Ohio
**MICHIGAN TOOL CO Michigan Lorenz Div 7171 McNichols Rd E Detroit 12 Mich**
Scherr Co George 200 Lafayette St New York 12 N Y "Koepfer"

**MACHINES GEAR LAPPING—See Machines, Lapping**

### MACHINES, Gear Shaving

Fellows Gear Shaper Co 78 River St Springfield Vt
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich**
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"

**MACHINES, GEAR TESTING—See Machines, Testing (Gear)**

### MACHINES, Gear Tooth Chamfering and Finishing

Cross Co 17801 E 14 Mile Rd Fraser Mich
Gleason Works 1000 University Ave Rochester 3 N Y "Formate" "Helixform"
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich (Finishing)**
Modern Industrial Engrg Co 14230 Birwood Ave Detroit 38 Mich
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich
Sheffield Corp 721 Springfield St Dayton 1 Ohio

**MACHINES, GEAR TOOTH GRINDING—See Machines, Grinding (Gear Tooth)**

### MACHINES, Glass Beveling and Grinding

Lange Machine Works Henry G 156 N May St Chicago 7 Ill
Sommer & Maca Glass Machinery Co 5501 W Ogden Ave Chicago 50 Ill "Somaca"

### MACHINES, Grinding (Abrasive Belt)

Acme Mfg Co 1400 E Nine Mile Rd Ferndale Detroit 20 Mich
Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "Loungway"
Hammond Machinery Builders Inc 1621 Douglass Ave Kalamazoo 54 Mich
Sales Service Machine Tool Co 2363 University Ave St Paul 14 Minn "Tri-Matic"
**SUNDSTRAND AMERICAN BROACH Div of Sundstrand Corp 415 W Huron Ave Ann Arbor Mich**

### MACHINES, Grinding (Automatic)

**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio (Semi)**

### MACHINES, Grinding (Ball Race)

Landis Tool Co Sixth St Waynesboro Pa
Van Norman Machine Co 3640 Main St Springfield 7 Mass

**MACHINES, GRINDING, BENCH (ELECTRIC)—See Grinders, Bench (Electric)**

### MACHINES, Grinding (Broach)

Thompson Grinder Co 1534 W Main St Springfield Ohio

### MACHINES, Grinding (Cam)

Bryant Chucking Grinder Co 257 Clinton St Springfield Vt
Landis Tool Co Sixth St Waynesboro Pa (Contour)
**NORTON CO 1 New Bond St Worcester 6 Mass**
Rowbottom Machine Co Sheffield St Waterbury 14 Conn
Van Norman Machine Co 3640 Main St Springfield 7 Mass

### MACHINES, Grinding (Centerless)

**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Engelberg Inc 831 W Fayette St Syracuse 4 N Y (Abrasive belt)
Heald Machine Co 10 New Bond St Worcester 6 Mass
Landis Tool Co Sixth St Waynesboro Pa
**NORTON CO 1 New Bond St Worcester 6 Mass**
Production Machine Co 311 Wells St Greenfield Mass
Royal Master Inc State Highway No 23 Riverdale N J
Van Norman Machine Co 3640 Main St Springfield 7 Mass

### MACHINES, Grinding (Chucking)

Bryant Chucking Grinder Co 257 Clinton St Springfield Vt
Bullard Co 286 Canfield Ave Bridgeport 9 Conn (Vertical)
**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Landis Tool Co Sixth St Waynesboro Pa
**NORTON CO 1 New Bond St Worcester 6 Mass**
Springfield Machine Tool Co 631 Southern Ave W Springfield Ohio

### MACHINES, Grinding (Contour)

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Cleveland Grinding Machine Co 30510 Lakeland Blvd Willowick Ohio "Visual Grind"
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich**
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio
**MICHIGAN TOOL CO Gear Grinding Machine Div 7171 McNichols Rd E Detroit 12 Mich**

### MACHINES, Grinding (Crankpin)

Norton Co 1 New Bond St Worcester 6 Mass

### MACHINES, Grinding, Crankshaft (Production)

Landis Tool Co Sixth St Waynesboro Pa
**NORTON CO 1 New Bond St Worchester 6 Mass "Crank-O-Matic"**
Van Norman Machine Co 3640 Main St Springfield 7 Mass

### MACHINES, Grinding (Cylinder)

**(See also Machines, Honing [Cylinder])**

Heald Machine Co 10 New Bond St Worcester 6 Mass

### MACHINES, Grinding, Cylindrical (Automatic)

Cedar Rapids Engrg Co 902 17th St NE Cedar Rapids Ia
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich
**NORTON CO 1 New Bond St Worcester 6 Mass**

### MACHINES, Grinding, Cylindrical (Plain)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
**CINCINNATI MILLING MACHINE CO GRINDING MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
Farrel-Birmingham Co 97 Main St Ansonia Conn
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
Landis Tool Co Sixth St Waynesboro Pa
**NORTON CO 1 New Bond St Worcester 6 Mass**

### MACHINES, Grinding, Cylindrical (Universal)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Cincinnati Milling Machine Co 4701 Marburg Ave Cincinnati 9 Ohio

### MACHINES, Grinding (Die)

Blanchard Machine Co., 64 State St Cambridge 39 Mass
Covel Mfg Co Graham Ave Benton Harbor Mich
Peters Tool Co 114 E Scott St Milwaukee 4 Wis
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

### MACHINES, Grinding (Disc)

Besley-Welles Corp 111 W Monroe St Chicago 3 Ill
Gardner Machine Co 444 E Gardner St Beloit Wis
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11, Ohio "Master"
Mattison Machine Works 545 Blackhawk Park Ave Rockford Ill
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

### MACHINES, Grinding (Drill)

Black Diamond Saw & Machine Works 81 North Ave Natick Mass "Black Diamond" "Worcester" (Sole distributors Edward Blake Co 570 Pleasant St Watertown 72 Mass)
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Sellers"
Covel Mfg Co Graham Ave Benton Harbor Mich
Dumore Co 1300 17th St Racine Wis
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
McDonough Mfg Co (Machine Tool Dept) 1500 Galloway St Eau Claire Wis "Sterling"
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Winslow Products Engrg Corp 47 St Joseph St Arcadia Calif "Winslo-Matic"

### MACHINES, Grinding (Face)

Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
Mattison Machine Works 545 Blackhawk Park Ave Rockford Ill
Oliver Instrument Co 1406 E Maumee St Adrian Mich

### MACHINES, Grinding (Form)

**MICHIGAN TOOL CO GEAR GRINDING MACHINE DIV 7171 E McNichols Rd E Detroit 12 Mich "Detroit"**
Sheffield Corp 721 Springfield St Dayton 1 Ohio "Crushtrue"

### MACHINES, Grinding (Gear Tooth)

Fellows Gear Shaper Co 78 River St Springfield Vt "Fellows-Reishauer"
Gleason Works 1000 University Ave Rochester 3 N Y "Coniflex" "Zerol"
**MICHIGAN TOOL CO GEARGRIND DIV 7171 McNichols Rd E Detroit 12 Mich**
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"

### MACHINES, Grinding (Hob)

Barber-Colman Co 1300 Rock St Rockford Ill

### MACHINES, Grinding (Internal)

Bryant Chucking Grinder Co 257 Clinton St Springfield Vt
**CINCINNATI MILLING MACHINE CO GRINDING MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass "Size-Matic" "Gage-Matic" (Plain and automatic)**
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Lempco Products Inc 5727 Dunham Rd Bedford Ohio
Michigan Tool Co Geargrind Div 7171 Mc Nichols Rd E Detroit 12 Mich "Geargrind"
Parker-Majestic Inc 147 Jos Campau Ave Detroit 7 Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
**SUNSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**

### MACHINES, Grinding (Jig)

Moore Special Tool Co 740 Union Ave Bridgeport 7 Conn
Vulcan Tool Co 730 Lorain Ave Dayton 10 Ohio "Vulcanaire"

**MACHINES, GRINDING (PISTON)—See Machines, Piston Turning and Grinding**

## MACHINES, Grinding (Piston Ring)

Lehmann-Brandes Machine Co 3560 Chouteau Ave St Louis 3 Mo

**MACHINES, GRINDING (PORTABLE)—See Grinders, Portable**

**MACHINES, GRINDING (PROFILE) — See Machines, Profiling**

## MACHINES, Grinding (Radius)

Oliver Instrument Co 1406 E Maumee St Adrian Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Van Norman Machine Co 3640 Main St Springfield 7 Mass (Oscillating type)

## MACHINES, Grinding (Reamer and Cutter)

Barber-Colman Co 1300 Rock St Rockford Ill
Cincinnati Milling Machine Co Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio
Covel Mfg Co Graham Ave Benton Harbor Mich "Covel" "Excel"
Gallmeyer & Livingston Co 346 Straight Ave Grand Rapids 4 Mich "Grand Rapids"
Gorton Machine Co George 1131 W 13th St Racine Wis
Ingersoll Milling Machine Co Rockford Ill
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Lee Co K O Congress at First Ave S E Aberdeen S D
McDonough Mfg Co (Machine Tool Dept) 1500 Galloway St Eau Claire Wis "Sterling"
**NORTON CO 1 New Bond St Worcester 6 Mass**
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn (Cutter)
Union Twist Drill Co Monroe St Athol Mass
Waltham Machine Works Inc 54 Sun St Waltham Mass (Cutter)

## MACHINES, Grinding (Saw)

Hanchett Mfg Co 906 W State St Big Rapids Mich (Band and circular)

## MACHINES, Grinding (Spline Shaft)

**MICHIGAN TOOL CO Geargrind Div 7171 McNichols Rd E Detroit 12 Mich**
Thompson Grinder Co 1534 W Main St Springfield Ohio

## MACHINES, Grinding (Springs, Washers, Etc.)

Besly-Welles Corp 111 W Monroe St Chicago 3 Ill

**MACHINES, GRINDING (SUPERFINISHING)—See Machines, Superfinishing**

## MACHINES, Grinding (Surface)

Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Blanchard Machine Co 64 State St Cambridge 39 Mass
Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill (Hydraulic)
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Covel Mfg Co Graham Ave Benton Harbor Mich "Covel" "Excel"
Curtis Machine Div Carborundum Co Box 337 Niagara Falls N Y
DoAll Co 254 N Laurel Ave Des Plaines Ill
Engleberg Inc 831 W Fayette St Syracuse 4 N Y (Abrasive belt)
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio "Hammond"
Frauenthal Div Kaydon Engrg Corp Muskegon Mich
Gallmeyer & Livingston Co 346 Straight Ave Grand Rapids 4 Mich
Gardner Machine Co 444 E Gardner St Beloit Wis
Hanchett Mfg Co 906 N State St Big Rapids Mich
Harig Mfg Corp 5757 W Howard St Chicago 48 Ill
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass (Rotary)**
Hill Acme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Vertical and horizontal)
Landis Tool Co Sixth St Waynesboro Pa
Lee Co K O Congress at First Ave S E Aberdeen S D
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Mattison Machine Works 545 Blackhawk Park Ave Rockford Ill (Horizontal and vertical spindle)
**NORTON CO 1 New Bond St Worcester 6 Mass**
Parker-Majestic Inc 147 Jos Campau Ave Detroit 7 Mich (Also rotary)
Peterson Machine Tool Inc 6200 Merriam Dr Merriam Kans
Reid Bros Co 138 Elliott St Beverly Mass
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I (Also rotary and reciprocating)
Thompson Grinder Co 1534 W Main St Springfield Ohio (Hydraulic)
United Engrg & Fdry Co Wilmington Plant P O Box 1108 Wilmington 99 Del "Bridgeport"
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Van Norman Machine Co 3640 Main St Springfield 7 Mass
Wean Equipment Corp 22828 Lakeland Blvd Euclid Cleveland 17 Ohio

## MACHINES, Grinding (Swing Frame)

Grand Haven Brass Fdry 230 N Hopkins St Grand Haven Mich
Mummert-Dixon Co Philadelphia & Gay Sts Hanover Pa
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

## MACHINES, Grinding (Tap)

Blake Co Edward 437 Cherry St West Newton 65 Mass (Chamfer and flute)
Rockford Die & Tool Works Inc 1816 17th Ave Rockford Ill "Rocket"

**MACHINES, GRINDING (Thread)—See Machines, Thread Grinding**

## MACHINES, Grinding (Tool)

Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Blount Co J G Newton Rd Littleton Mass
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio
Cincinnati Lathe & Tool Co Cincinnati 9 Ohio "Spiropoint" (Drill sharpeners)
Colonial Broach & Machine Co P O Box 37 Harper Station Detroit 13 Mich
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Sellers"
Continental Machine Co 2345 W Nelson St Chicago 18 Ill
Covel Mfg Co Graham Ave Benton Harbor Mich "Covel" "Excel"
De Vlieg Machine Co Fair St Royal Oak Mich "Micropoint"
DoAll Co 254 N Laurel Ave Des Moines Ill
Dumor Co 1300 17th St Racine Wis
Ex-Cello Corp 1200 Oakman Blvd Detroit 32 Mich "XLO" (Carbide and electrolytic)
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio
Gallmeyer & Livingston Co 346 Straight Ave Grand Rapids 4 Mich
Gisholt Machine Co 1307 E Washington Ave Madison Wis
Hager & Son E F 98-02 217th Lane Queens Village 9 L I N Y (Carbide)
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Mich
Hanchett Mfg Co 906 N State St Big Rapids Mich
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass**
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Landis Tool Co Sixth St Waynesboro Pa
Lapointe Machine Tool Co 34 Tower St Hudson Mass "Lapointe Hudson"
Lee Co K O Congress at First Ave S E Aberdeen S D
Lippmann Engineering Works Inc 4603 W Mitchell St Milwaukee Wis "Ransom"
McDonough Mfg Co (Machine Tool Dept) 1500 Galloway St Eau Claire Wis "Sterling" (Oilstone)
Mattison Machine Works 545 Blackhawk Park Ave Rockford Ill
Mummert-Dixon Co Philadelphia & Gay Sts Hanover Pa
National Acme Co 170 E 131st St Cleveland 8 Ohio
**NORTON CO 1 New Bond St Worcester 6 Mass "Norton Bur-a-way"**
Oliver Instrument Co 1406 E Maumee St Adrian Mich (Carbide)
Peters Tool Co 114 E Scott St Milwaukee 4 Wis
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Prosser & Son Thomas Felter Bldg Tenafly N J (For carbide cast alloys and high speed steel tools)
Reuland Electric Co 3001 W Mission Rd Alhambra Calif
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Spiral Step Tool Co 54 N Damen Ave Chicago 25 Ill
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio
Valley Electric Co 4221 Forest Park Blvd St Louis Mo
Wendt-Sonis Co Tenth & Collier Sts Hannibal Mo "Econogrind"
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman-Neven" (Carbide)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich
Wissota Mfg Co 1301 S 3rd St Minneapolis Minn

## MACHINES, Grinding (Universal)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Covel Mfg Co Graham Ave Benton Harbor Mich "Covel" "Excel"
Gallmeyer & Livingston Co 346 Straight Ave Grand Rapids 4 Mich "Grand Rapids"
Hanchett Mfg 906 N State St Big Rapids Mich
Landis Tool Co Sixth St Waynesboro Pa
**NORTON CO 1 New Bond St. Worcester 6 Mass**
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Royal Oak Tool & Machine Co 29800 Stephenson Highway Royal Oak Mich
Sheffield Corp 721 Springfield St Dayton 1 Ohio
Springfield Machine Tool Co 631 Southern Ave W Springfield Ohio

## MACHINES, Grinding (Valve Seat) (Production Work)

**HALL-TOLEDO INC 2931 South Ave Toledo 9 Ohio**

## MACHINES, Grinding & Polishing

Acme Mfg Co 1400 E Nine Mile Rd Ferndale Detroit 20 Mich
Century-Detroit 6101 Concord Ave Detroit 11 Mich (Special)
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y
Curtis Machine Div Carborundum Co Box 337 Niagara Falls N Y
Engleberg Inc 831 W Fayette St Syracuse 4 N Y (Abrasive belt)
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Hammond Machinery Bldrs Inc 1621 Douglas Ave Kalamazoo 54 Mich
Hill Acme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Abrasive belt)
Mattison Machine Works 545 Blackhawk Park Ave Rockford Ill (Abrasive belt)
Millers Falls Co 57 Wells St Greenfield Mass
Production Machine Co 311 Wells St Greenfield Mass
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"

## MACHINES, Heat Treating

Cincinnati Milling Machine Co Meta-Dynamics Div 4701 Marburg Ave Cincinnati 9 Ohio "Flamatic" "Inductron"
General Electric Co Apparatus Labs Div 1 River Rd Schenectady 5 N Y
Gleason Works 1000 University Ave Rochester 3 N Y (For flame hardening of gears)
Industrial Washing Machine Corp 32 Main St Matawan N J
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Selas Corp of America Dresher Pa "Gradiation"

## MACHINES, Helix Testing

**GREENFIELD TAP & DIE DIV UNITED-GREENFIELD CORP Sanderson St Greenfield Mass "GTD"**

## MACHINES, Honing (Cylinder)

Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill
Barnes Co W F & John 301 S Water St Rockford Ill
**BARNES DRILL CO 826 Chestnut St Rockford Ill "Barnesdril"**
Lisle Corp 809 E Main St Clarinda Iowa
**MICROMATIC HONE CORP 8100 Schoolcraft Ave Detroit 38 Mich "Hydrohoners" "Microhoners"**
**MOLINE TOOL CO 102 20th St Moline Ill "Hole Hog"**
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo

## MACHINES, Honing (Flat Surface)

**MICROMATIC HONE CORP 8100 Schoolcraft Ave Detroit 38 Mich "Microflat"**

## MACHINES, Honing (Liquid)

Vapor Blast Mfg Co 3025 W Atkinson Ave Milwaukee 16 Wis

## MACHINES, Honing (Small Bore)

Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill
**BARNES DRILL CO 826 Chestnut St Rockford Ill**
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
**MICROMATIC HONE CORP 8100 Schoolcraft Ave Detroit 38 Mich "Microhoners"**
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Robinson Mfg Co 13th & Indiana Ave St Charles Ill "Reasor"
Sunnen Products Co 7910 Manchester Ave St Louis 17 Mo (Piston pin)
Superior Hone Corp P O Box 317 Erwin Tex
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo

**MACHINES, INDUCTION HEATING — See Heaters, Induction**

**MACHINES, JIG GRINDING—See Machines, Grinding (Jig)**

## MACHINES, Key Cutting

Barber-Colman Co 265 Loomis St Rockford Ill
Independent Lock Co 49 Daniels St Fitchburg Mass "Ilco"
Stewart Corp F W 4311 N Ravenswood Ave Chicago Ill "Detroit"
Wilson Inc K R Arcade N Y "K R W"

## MACHINES, Keyseating

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Lapointe Machine Tool Co 34 Tower St Hudson Mass "Lapointe Hudson"
Mitts & Merrill 1009 S Water St Saginaw Mich "M & M Giant"
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich

## MACHINES, Kneading and Mixing

**(Used in manufacture of lead storage battery pastes, battery jars, pyroxylin solutions, emery wheel compositions, molded goods, etc.)**

Baker Perkins Inc Fraser & Young Sts Saginaw Mich "B-P"
Farrel-Birmingham Co 97 Main St Ansonia Conn "Banbury" (Rubber and plastic)

## MACHINES, Lapping

Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"
**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio (Centerless)**
**CRANE PACKING CO 6435 Oakton St. Morton Grove Ill "Lapmaster"**
Diesel Control Corp Marine Pump Div of 228 N Marine Ave Wilmington Calif "Spiralap" (Rotary and hand)
Ex-Cello Corp 1200 Oakman Blvd Detroit 32 Mich "XLO" (Center)
Fellows Gear Shaper Co 78 River St Springfield Vt (Gear)
Foote-Burt Co 13000 St Clair Ave Cleveland 8 Ohio "Footburt-Schraner"
Gleason Works 1000 University Ave Rochester 3 N Y
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich (Gear)**
Micromatic Hone Corp 8100 Schoolcraft Ave Detroit 38 Mich "Fabroid"
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"
**NORTON CO 1 New Bond St Worcester 6 Mass "Crank-O-Lap" (Crankshaft; "Hyprolap" cylindrical and flat)**
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Schauer Mfg Corp 4500 Alpine Ave Rossmoyne Ohio
Size Control Co Div American Gage & Machine Co 2500 Washington Blvd Chicago 12 Ill (Centerless)
Syntron Co 495 Lexington Ave Homer City Pa
Taft-Peirce Mfg Co 32 Mechanic Ave Woonsocket R I
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman-Neven" (Carbide)

**MACHINES, LEAD BURNING—See Burners, Lead**

## MACHINES, Magnetic Particle Inspection (For Defects)

Magnaflux Corp 7328 W Lawrence Ave Chicago 31 Ill

## MACHINES, Marking (For Metal)

**ACROMARK CO 9-15 Morrell St Elizabeth 4 N J "Acromark" "Aeroprinter"**
Cunningham Co M E 1025 Chateau St Pittsburgh 33 Pa
Gorton Machine Co George 1131 W 13th St Racine Wis
Markem Machine Co 150 Congress St Keene N H
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Matthews & Co Jas H 3942 Forbes Ave Pittsburgh 13 Pa
Noble & Westbrook Mfg Co 20 Westbrook St East Hartford 8 Conn
Pannier Corp 207 Sandusky St Pittsburgh 12 Pa
Schmidt Inc Geo T 4100 Ravenswood Ave Chicago 13 Ill "Hi-Duty" (Car frame numbering)
Superior Seal & Stamp Co 1401 Vermont Ave Detroit 16 Mich

## MACHINES, Marking (For Plastics)

Acromark Co 9 Morrell St Elizabeth 4 N J "Acroleaf"
Markem Machine Co 150 Congress St Keene N H

## MACHINES, Mechanical Finishing and De-Burring

Acme Mfg Co 1400 E Nine Mile Rd Ferndale Detroit 20 Mich
**ALMCO QUEEN PRODUCTS Div Kingsecley Corp 901 E Main St Albert Lea Minn "Almco Supersheen"; "Almo Vibrasheen" (Vibratory)**
**CENTRI-SPRAY CORP 3901 Schoolcraft Rd Livonia Mich**
Gravi-i-Flo Corp 400 Norwood Ave Sturgis Mich
Modern Industrial Engrg Co 14230 Birwood Ave Detroit 38 Mich "Burr-Master"
**OSBORN MFG CO 5401 Hamilton Ave NE Cleveland 14 Ohio "Osborn Master Blend"**
Pangborn Corp 200 Pangborn Blvd Hagerstown Md
Pines Engrg Co 601 Walnut St Aurora Ill
Prab Conveyors Inc 30121 Groesbeck Hwy Roseville Detroit Mich
Ransohoff Co N Fifth at Ford Blvd Hamilton O
Roto-Finish Co 3700 Milham Rd Kalamazoo Mich "Roto-Finish" "Vibratron"

## MACHINES, Milling (Automatic)

Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
**CINCINNATI MILLING MACHINE CO MILLING MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio "HyPowermatic"**
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Fitchburg-Engrg Corp Cleghorn St Fitchburg Mass
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Mil-waukee-Mill"
Kent-Owens Machine Co 958 Wall St Toledo 10 Ohio
Michigan Special Machine Co 11449 Timken Ave Warren Mich
Motch & Merryweather Mchy Co 1250 E 222nd St Cleveland 7 Ohio
New Britain-Gridley Machine Div New Britain Machine Co South St New Britain Conn
Onsrud Machine Works Inc 7720 N Lehigh Ave Niles 48 Ill (Non-ferrous)
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn "Producto" "Mill-Matic"
Rotex Punch Co 2350 Alvardo St San Leandro Calif
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
**SUNDSTRAND MACHINE TOOL CO Div of Sundstrand Corp Belvidere Ill**
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio (Semi-automatic)
U S Tool Co 255 N 18th St Ampere (East Orange) N J

## MACHINES, Milling (Bench)

Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif
Rotex Punch Co 2350 Alvardo St San Leandro Calif
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke"

## MACHINES, Milling (Cam)

**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich**

## MACHINES, Milling (Continuous)

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Pellow Machine Co 3500 Foley Ave Detroit 27 Mich
**SUNDSTRAND MACHINE TOOL Div of Sundstrand Corp Belvidere Ill "Rigidmill" (Circular)**

## MACHINES, Milling (Cylinder Head)

Storm-Vulcan Inc 225 Burbank St Dallas 35 Tex

## MACHINES, Milling (Duplex)

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis
Motch & Merryweather Mchy Co 1250 E 222nd St Cleveland 7 Ohio
**SUNDSTRAND MACHINE TOOL Div of Sundstrand Corp Belvidere Ill "Rigidmill"**
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Half Mill"

## MACHINES, Milling (Hand)

Kent-Owens Machine Co 958 Wall St Toledo 10 Ohio
Rouse & Co H B 2214 N Wayne Ave Chicago 14 Ill
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "Burke" & "U S"

## MACHINES, Milling (Horizontal)

**(See also Machines, Boring, Drilling and Milling [Horizontal]**

Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
**CINCINNATI MILLING MACHINE CO MILLING MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
**CINCINNATI MILLING MACHINE CO SPECIAL MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Cross Co 17801 E 14 Mile Rd Fraser Mich
Crowningshield Inc 71 Country Club Greenfield Mass (Hand toolroom power feed and air)
Davis & Thompson Co 4460 N 124th St Milwaukee 10 Wis "Roto-Matic"
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Gorton Machine Co George 1131 W 13th St St Racine Wis
Greaves Machine Tool Div of J A Fay & Egan Co 2001 Eastern Ave Cincinnati 2 Ohio (Plain and universal)
Index Machine & Tool Co 543 N Mechanic St Jackson Mich
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Kempsmith Machine Co 1819 S 71st St West Allis 14 Wis "Maximiller" & "Kempsmith Master-Mill" (Plain and universal)
Millholland Machinery Co W K 6402 Westfield Blvd Indianapolis 20 Ind
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill "Rigidmil"**

## MACHINES, Milling (Planer Type)

Cincinnati Milling Machine Co Marburg Ave Cincinnati 9 Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic" "D & T"
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Giddings & Lewis Machine Co 142 Doty St Fond du Lac Wis
Gray Co G A 3611 Woodburn Ave Cincinnati Ohio
Simplex Machine Tool Corp N 56 W 13760 Carmen Ave Butler Wis

## MACHINES, Milling (Rotary)

Cincinnati Milling Machine Co Special Machine Div 4701 Marburg Ave Cincinnati Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton" (Continuous)
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "D & T" "Roto-Matic"
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"

## MACHINES, Milling (Spline)

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"

## MACHINES, Milling (Thread)

Lees-Bradner Co Elmwood Ave & W 121st St Cleveland 11 Ohio
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**
Waltham Machine Works Inc 54 Sun St Waltham Mass
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

## MACHINES, Milling (Universal)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Gorton Machine Co George 1131 W 13th St Racine Wis
Hardinge Bros Inc 1418 College Ave Elmira N Y
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Precise Products Corp 3715 Blue River Rd Racine Wis
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Supermill"
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill**
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "US" "Quartet"
Van Norman Machine Co 3640 Main St Springfield 7 Mass

## MACHINES, Milling (Vertical)

Adams Engrg Co 31711 Solon Rd Solon 39 Ohio
Atlas Press Co 1842 N Pitcher St Kalamazoo 13D Mich "Clausing"
Barnes Co W F & John 301 S Water St Rockford Ill
Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
**CINCINNATI MILLING MACHINE CO MILLING MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
**CINCINNATI MILLING MACHINE CO SPECIAL MACHINE DIV 4701 Marburg Ave Cincinnati 9 Ohio**
Cincinnati Planer Co 3120 Forrer St (Oakley) Cincinnati Ohio
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Newton"
Crowningshield Inc 71 Country Club Greenfield Mass (Hand toolroom rackfeed production and air feed)
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "D & T" "Roto-Matic"
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Ekstrom Carlson & Co 1400 Railroad Ave Rockford Ill "Ecco"
Famco Machine Co 3100 Sheridan Rd Kenosha Wis
Fitchburg Engrg Corp Cleghorn St Fitchburg Mass
Gorton Machine Co George 1131 W 13th St Racine Wis
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Index Machine & Tool Co 543 N Mechanic St Jackson Mich
Ingersoll Milling Machine Co Rockford Ill
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Kearney & Trecker-Milwaukee"
Kent-Owens Machine Co 958 Wall St Toledo 10 Ohio
Knight Machinery Co W B 3920 W Pine St St Louis 8 Mo
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Reed-Prentice Corp 677 Cambridge St Worcester 4 Mass
S & S Machinery Co 140 53rd St Brooklyn 32 N Y "Supermill"
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill "Rigidmil"**
U S-Burke Machine Tool Div Cincinnati Mfg Corp Brotherton Rd Cincinnati 27 Ohio "US" "Millrite"

## MACHINES, Milling and Centering (Automatic)

Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis
Jones & Lamson Machine Co 523 Clinton St Springfield Vt
Motch & Merryweather Mchy Co 1250 E 222nd St Cleveland 7 Ohio
Seneca Falls Machine Co 314 Fall St Seneca Falls N Y
**SUNDSTRAND MACHINE TOOL DIV OF SUNDSTRAND CORP Belvidere Ill "Centrmil"**

## MACHINES, Molding, Metal (Foundry)

International Molding Machine Co 1201 N Barnsdale Ave La Grange Park Ill
Milwaukee Foundry Equipment Div of Spo Inc 3238 W Pierce St Milwaukee Wis
Nicholls Co Wm H 86-08 130th St Richmond Hill 18 L I N Y
**OSBORN MFG CO 5401 Hamilton Ave N E Cleveland 14 Ohio**
Tabor Mfg Co Div of Turbo Machine Co 840 W Main St Lansdale Pa

**MACHINES, MOLDING (PLASTIC) — See Presses, Plastic Molding**

## MACHINES, Nibbling

Savage Co W J 912 Clinch Ave S W Knoxville 16 Tenn
Wilson Mechanical Instrument Div American Chain & Cable Co 230 Park Ave N Y 17 N Y "Campbell"

## MACHINES, Numbering, for Metal (Automatic)

**ACROMARK CO 9 Morrell St Elizabeth 4 N J**
Numberall Stamp & Tool Co Huguenot Park S I 12 N Y
Schmidt Inc Geo T 4100 Ravenswood Ave Chicago 13 Ill "Hi-Duty"

## MACHINES, Numerically Controlled

**CINCINNATI MILLING MACHINE CO Special Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich**
**HEALD MACHINE CO 10 New Bond St Worcester 6 Mass**
Kearney & Trecker Corp 6800 W National Ave Milwaukee 14 Wis "Milwaukee-Matic"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn

## MACHINES, Oil Grooving

Fischer Machine Co 310 N 11th St Philadelphia 7 Pa
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex (Connecting rod hand operated)
Wicaco Machine Corp 4801 Stenton Ave Philadelphia 44 Pa

## MACHINES, Painting

(See also Sprayers, Paint, Varnish and Lacquer)

**BINKS MFG CO 3120 Carroll Ave Chicago 12 Ill (Spray)**
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
Conforming Matrix Co Toledo Factories Bldg Toledo 2 Ohio (Spray)
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio (Spray)**
De Vilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich (Spray)
Nordson Corp Jackson St Amherst Ohio (Hot airless system)
Ransburg Electro-Coating Corp Box 23122 Indianapolis 23 Ind (Electrostatic spray and electrostatic detearing units licensors)
Schweitzer Equipment Co 3764 Ridge Rd Cleveland 9 Ohio (Spray)

## MACHINES, Pantograph

Gorton Machine Co George 1131 W 13th St Racine Wis

## MACHINES, Phosphatizing

Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich**

## MACHINES, Pickling

Circo Co 51 Terminal Ave Clark N J
**DE VILBISS CO 300 Phillips Ave Toledo 1 Box 501 Detroit 32 Mich**
Lindberg Engrg Co 2450 W Hubbard St Chicago 12 Ill
**MAHON R C 6565 E S Mile Rd Detroit 34 Mich**
Meaker Co 1629 S 55th Ave Chicago 50 Ill
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa "Fosbond"
Ransohoff Co N 5th St at Ford Blvd Hamilton Ohio
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

## MACHINES, Piston Boring (Automatic)

Ex-Cello Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"
Lamb Co F Jos 5663 Nine Mile Rd Detroit 34 Mich

## MACHINES, Piston Center Drilling and Facing

Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## MACHINES, Piston Making

La Salle Machine Tool Inc 3840 E Outer Dr Detroit 34 Mich (Automated)

**MACHINES, PISTON PIN BUSHING BORING —See Machines, Boring (Piston Pin Bushing)**

**MACHINES, PISTON RING GRINDING—See Machines, Grinding (Piston Ring)**

## MACHINES, Piston Turning and Grinding

Cedar Rapids Engineering Co 902 17th St NE Cedar Rapids Iowa "Kwik-Way"
**CINCINNATI MILLING MACHINE CO Grinding Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
Landis Tool Co Sixth St Waynesboro Pa (Grinding)
Norton Co 1 New Bond St Worcester 6 Mass "Cam-O-Matic" "Norton" (Grinding)
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex

## MACHINES, Plating

**(Including machines, generators, tanks and supplies)**

**ALLIED RESEARCH PRODUCTS INC 4004 E Monument St Baltimore 5 Md "Wagner" (Also rectifiers and tanks)**
Columbia Electric Mfg Co 4519 Hamilton Ave Cleveland 14 Ohio (Generators)
Crown Rheostat & Supply Co 1965 Pratt Blvd Elk Grove Village Ill
Djeco Div of Djordjevic Engrg Co 1933 N Damem St Chicago 47 Ill (Rectifiers also automatic controlled AC and DC power supplies)
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" (Generators and rectifiers)
Hanson-Van Winkle-Munning Co Matawan N J "H-VW-M" (Generators rectifiers barrels and tanks)
Meaker Co 1629 S 55th Ave Chicago 50 Ill
**METAL & THERMIT CORP Rahway N J**
Niles Steel Tank Co Niles Mich "Lifetime" (Tanks)
Phillips Mfg Co 3475 Touhy Ave Chicago 45 Ill (Tanks)
Ransohoff Inc N 5th St at Fort Blvd Hamilton Ohio
**STEVENS INC Frederic B 1800 18th St Detroit 16 Mich (Automatic also plating tanks)**
**UDYLITE CORP 1651 E Grand Blvd Detroit 11 Mich "Cyclemaster" (Automatic; "Udylite" "Udysil" rectifiers; "Udylok-Tempron" barrel)**
Ward Leonard Electric Co 37 South St Mt Vernon N Y "Chromaster" (Chrome)

**MACHINES, POWDERED METAL — See Presses, Powdered Metal**

## MACHINES, Pressure and Vacuum Testing

**(For detecting leaks in castings, assemblies, oil pumps, fuel tanks, etc.)**

Barnes Co W F & John 301 S Water St Rockford Ill
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill (Vacuum)
Logemann Bros Co 3112 W Burleigh St Milwaukee 45 Wis (Pressure)
Moore Products Co H & Lycoming Sts Philadelphia 24 Pa
NRC Equipment Corp 160 Charlemont St Newton 61 Mass (Vacuum)
Nankervis Co George L 15300 Fullerton St Detroit 27 Mich
**PERFORMANCE MEASUREMENTS CO 15120 Third Ave Detroit 3 Mich**
Whittington Pump & Engr Corp 1126 Prospect St Indianapolis 3 Ind

## MACHINES, Processing (Sheet Metal)

**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio**

## MACHINES, Profiling

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio (Grinding)
Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill (Grinding)
**CINCINNATI MILLING MACHINE CO Milling Machine Div 4701 Marburg Ave Cincinnati 9 Ohio**
**CINCINNATI MILLING MACHINE CO Special Machine Div 4701 Marburg Ave Cincinnati 9 Ohio (Rotary)**
Douglas Tool Co 2300 E Nine Mile Rd Hazel Park Mich (Milling)
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich "XLO" (Grinding milling and polishing)**
Frauenthal Div Kaydon Engrg Corp Muskegon Mich (Grinding)
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Gorton Machine Co George 1131 W 13th St Racine Wis
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master" (Grinding)
McKay Machine Co 825 W Federal St Youngstown 1 Ohio "McKay Radii (Milling)
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
New England Machine & Tool Co Berlin Conn "MagneTrace" (Automatic; sole distributors Pratt & Whitney Co Charter Oak Blvd West Hartford Conn)
Onsrud Machine Works Inc 7720 N Lehigh Ave Niles 48 Ill
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn (Milling)
Rice Pump & Machine Co 600 Park St Belgium Wis "Rice Milwaukee"
Sheffield Corp 721 Springfield St Dayton 1 Ohio (Grinding)
Wade Tool Co 49 River St Waltham 54 Mass (Milling)
Wickes Machine Tool Div Wickes Corp 515 N Washington Ave Saginaw Mich

## MACHINES, Punching

ACF Electronics Div ACF Industries Inc Riverdale Md
Allen Industries Alva 7 & 13 Junction Clinton Mo (Bench type)
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Benchmaster Mfg Co 1835 W Rosecrans Ave Gardena Calif
Bliss Co E W 1375 Raff St S W Canton Ohio
Chicago Pneumatic Tool Co 6 E 44th St N Y 17 N Y "CP" (Hydraulic)
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill
Decherts Dynamics Corp 713 W Main St Palmyra Pa "Robinson"
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Embart Mfg Co Hudson Div Union Turnpike Hudson N Y "V & O"
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeton N J
**HANNIFIN CO 543 S Wolf Rd Des Plaines Ill "Hy-Power" (Hydraulic)**
Hendley & Whittemore Co Box 959 Beloit Wis
Kenco Mfg Co 5211 Telegraph Rd Los Angeles 22 Calif
Kling Bros Engrg Wks 1320 N Kostner Ave Chicago 51 Ill
L & J Press Corp Elkhart Ind
Minster Machine Co 240 W 5th St Minster Ohio
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Perkins Machine Co 12 Perkins Ave Warren Mass "PPP"
Richards Co J A 903 N Pitcher St Kalamazoo Mich
Rotex Punch Co 2350 Alvardo St San Leandro Calif
Service Machine Co 2310 W 78th St Chicago 20 Ill "Rousselle"
Steelweld Machine Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio
Taylor-Winfield Corp 1052 Mahoning Ave NW Warren Ohio
Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago Ill
**WALES-STRIPIT INC 242 Buell Rd Akron N Y**
Walsh Press & Die Div of American Gage & Machinery Co 4709 W Kinzie St Chicago 44 Ill
Whitney Metal Tool Co 190 Forbes St Rockford Ill "Whitney-Jensen"
Wiedemann Machine Co Gulph Rd King of Prussia Pa (Turret)

## MACHINES, Quenching

Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 Ill
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Gleason Works 1000 University Ave Rochester 3 N Y
Simplicity Engrg Co Durand 1 Mich
Urschel Engrg Co Troupe St & Urschel Drive Bowling Green Ohio

## MACHINES, Riveting (Metal)

ACF Electronics Div ACF Industries Inc Riverdale Md
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "Boyer" (Portable pneumatic; also hydraulic)**
Chicago Rivet & Machine Co 950 S 25th Ave Bellwood Ill (Chicago Suburb)
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Grant Mfg & Machine Co 90 Silliman Ave Bridgeport 5 Conn
Hanna Enginering Works 1765 Elston Ave Chicago 22 Ill "Shepard" (Pneumatic)
**HANNIFIN CORP 543 S Wolf Rd Des Plaines Ill "Hy-Power" (Hydraulic)**
High Speed Hammer Co 313 Norton St Rochester 21 N Y
Hill Machine Co 1301 Eddy Ave Rockford Ill (Pneumatic)
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Lemert Engrg Co 1313 Western Ave Plymouth Ind "Airflex"
Lempco Products Inc 5727 Dunham Rd Bedford Ohio
Milford Rivet & Machine Co Post Rd Milford Conn
National Rivet & Mfg Co Waupun Wis
Nugier Co F A 6374 Arizon Circle Los Angeles 45 Calif (Ring gear)
Power Brake Parts Mfg Co 3441 S Racine Ave Chicago 8 Ill "PB" (Pneumatic)
**THOMSON MFG CO Judson L Sawyer Rd Waltham Mass**
Thor Power Tool Co 175 State St Aurora Ill (Portable pneumatic)
**TOMKINS-JOHNSON CO 2425 W Michigan Ave Jackson Mich "Rivitor" "T-J"**
Townsend Co Engineered Fasteners Div P O Box 70 Ellwood City Pa
Tubular Rivet & Stud Co Weston Ave Quincy 70 Mass
United Shoe Machinery Corp 140 Federal St Boston 7 Mass

## MACHINES, Roll-Forming

Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Grotnes Machine Works Inc 5454 N Wolcott Ave Chicago 40 Ill
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Rockford Machine Tool Co Maplewood Div 2400 Kishwaukee St Rockford Ill "Maplewood"
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
**YODER CO 5553 Walworth Ave Cleveland 2 Ohio**

## MACHINES, Rolling (Strip)

Kane & Roach Niagara & Shonnard Sts Syracuse N Y
Waterbury Farrel Fdry & Machine Co Div of Textron Inc 453 Bank St Waterbury 20 Conn

## MACHINES, Routing

Richards Co J A 903 N Pitcher St Kalamazoo Mich "Multiform" (For magnesium and aluminum match plates)
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill

## MACHINES, Rust Proofing

Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich**

**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"
**MAHON CO R C 6565 E 8 Mile Rd Detroit 34 Mich**
Ransohoff Inc N 5th St at Ford Blvd Hamilton Ohio

## MACHINES, Sanding (Metal)

Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Curtis Machine Div Carborundum Co Box 337 Niagara Falls N Y
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Production Machine Co 311 Wells St Greenfield Mass

**MACHINES, SANDING (PORTABLE)—See Sanders, Portable**

## MACHINES, Sanding (Wood)

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich
Beach Mfg Co Mill & High Sts Montrose Pa "Heath"
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master" (Spindle)
Porter-Cable Machine Co 1800 Salina St Syracuse 8 N Y
Production Machine Co Greenfield Mass
Wysong & Miles Co 625 Fulton St Greensboro N C

## MACHINES, Sawing (Band)

Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill "Do All Zephyr" (Contour)
Famco Machine Co 3100 Sheridan Rd Kenosha Wis
Grob Inc Crafton Wis
Jones Superior Machine Co 2820 W Grand Ave Chicago 12 Ill "Superior"
Moak Machine & Tool Co 2547 Connor St Port Huron Mich
Peerless Machine Co 1600 Junction Ave Racine Wis
Porter Machinery Co C O 666 Front Ave N W Grand Rapids Mich
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Tannewitz Works Inc 315 Front Ave N W Grand Rapids 2 Mich
Thompson & Son Henry S 277 Chapel St New Haven 5 Conn "Milband"
Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa
Wells Mfg Corp E on Highway M-60 Three Rivers Mich
Yates-American Machine Co Beloit Wis

## MACHINES, Sawing (Circular)

Beach Mfg Co Mill & High Sts Montrose Pa
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
De Walt Inc Fountain Ave Lancaster Pa
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
Hermance Machine Co 178 Campbell St Williamsport 19 Pa
Jones Superior Machine Co 2820 W Grand Ave Chicago 12 Ill "Superior"
Kling Bros Engrg Works 1320 N Kostner Ave Chicago 51 Ill
Loma Machine Mfg Co 114 E 32nd St New York 16 N Y
Moak Machine & Tool Co 2547 Connor St Port Huron Mich
Motch & Merryweather Mchy Co 1250 E 222nd St Cleveland 7 Ohio
Power & Co L 2810 Oakford St Philadelphia 46 Pa
Richards Co J A 903 N Pitcher St Kalamazoo Mich "Electromatic"
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Tannewitz Works Inc 315 Front Ave N W Grand Rapids 2 Mich
Ty-Sa-Man Mchry Co 1006 White Ave Knoxville 1 Tenn
Yates-American Machine Co Beloit Wis

## MACHINES, Sawing (Die)

Richards Co J A 903 N Pitcher St Kalamazoo Mich "Electromatic"

## MACHINES, Sawing (Power Hack)

Covel Mfg Co Graham Ave Benton Harbor Mich "Excel"
Maquoketa Co Clinton Iowa "Sawmore"
Peerless Machine Co 1600 Junction Ave Racine Wis
Racine Hydraulics & Machinery Inc 2000 Albert St Racine Wis
Sales Service Machine Tool Co 2363 University Ave St Paul 14 Minn "Keller"

## MACHINES, Sawing (Swing)

De Walt Inc Fountain Ave Lancaster Pa
Moak Machine & Tool Co 2547 Connor St Port Huron Mich

## MACHINES, Sawing and Filing

Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill (Contour)
Oliver Instrument Co 1406 E Maumee St Adrian Mich
Tannewitz Works Inc 315 Front Ave N W Grand Rapids 2 Mich

## MACHINES, Screw (Automatic)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Cleveland Automatic Machine Co 4932 Beech St Norwood Cincinnati 12 Ohio
Cone Automatic Machine Co Windsor Vt "Conomatic"
Davenport Machine Tool Co 167 Ames St Rochester 11 N Y
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
National Acme Co 170 E 131st St Cleveland 8 Ohio "Acme-Gridley"
New Britain Machine Co New Britain-Gridley Machine Div New Britain Conn
Porter-McLeod Machine Tool Co Prospect St Hatfield Mass "Double-Matic"
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

## MACHINES, Screw (Hand or Plain)

Brown & Sharpe Mfg Co 235 Promenade St Providence R I (Hand)
Hardinge Bros Inc 1418 College Ave Elmira N Y (Precision)
Monarch Machine Tool Co 402 Oak St Sidney Ohio (Hand)
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Wade Tool Co 49 River St Waltham 54 Mass (Hand)

## MACHINES, Screwdriving (Automatic)

Detroit Power Screwdriver Co Dept 60-AIPG 2801 W Fort St Detroit 16 Mich
Dixon Automatic Tool Co 2300 23rd Ave Rockford Ill
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin Ill

## MACHINES, Seaming (Metal)

Bliss Co E W 1375 Raff Rd S W Canton Ohio
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"

## MACHINES, Sewing (Industrial)

Union Special Machine Co 402 N Franklin St Chicago 10 Ill
Willcox & Gibbs Sewing Machine Co 214 W 39th St New York 18 N Y

## MACHINES, Shaft Turning (Multiple Spindle)

**NATIONAL ACME CO 170 E 131st St Cleveland 8 Ohio**

## MACHINES, Sheet Metal Working

**(For drawing, forming, cutting and punching)**

ACF Industries Inc ACF Industries Inc Riverdale Md
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Hendley & Whittemore Co Box 959 Beloit Wis
Kane & Roach Inc Niagara & Shonnard St Syracuse 4 N Y
Lennox Tool & Machine Builders 651 N Baxter St Lima Ohio "Lennox Tru-Edge"
McKay Machine Co 825 W Federal St Youngstown 1 Ohio
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
**WALES-STRIPPIT INC 242 Buell Rd Akron N Y**
Wean Equipment Corp 22828 Lakeland Blvd Euclid Cleveland 17 Ohio (Combination slitting and shearing)
Wysong & Miles Co 625 Fulton St Greensboro N C

## MACHINES, Shot Peening

Pangborn Corp 200 Pangborn Blvd Hagerstown Md "Rotoblast"
Wheelabrator Corp 1466 S Byrkit St Mishawaka Ind "Wheelapeen" & "Wheelabrator"

## MACHINES, Slitting

**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio "McKaymatic"**
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich (Sheet or coil stock)
**WEAN EQUIPMENT CORP 22828 Lakeland Blvd Euclid Cleveland 17 Ohio**
**YODER CO 5553 Walworth Ave Cleveland 2 Ohio (Rotary)**

## MACHINES, Slotting

Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Betts"
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Pellow Machine Co 13500 Foley Ave Detroit 27 Mich (Nut)
Rockford Machine Tool Co 2400 Kishwaukee St Rockford Ill "Hy-Draulic"
Superior Machine & Engineering Co 1930 Ferry Park Detroit Mich
Wales-Strippit Inc 242 Buell Rd Arkon N Y
Waterbury Farrel Foundry & Machine Co Div of Textron Inc 453 Bank St Waterbury 20 Conn (Screw head)

## MACHINES, Soldering

Acoustica Associates Inc Shore Rd Glenwood Landing L I N Y (Ultrasonic)
Alcar Instruments Inc 411 Robbins Ave Trenton 8 N J (Ultrasonic)

## MACHINES, Special Combination

Buhr Machine Tool Co 839 Green St Ann Arbor Mich "Economatic"
Cross Co 17801 E 14 Mile Rd Fraser Mich (Dial rotary index trunnion single and double station)
Krueger & Co H R 1469 E Grand Blvd Detroit 11 Mich (For drilling reaming countersinking milling chamfering spotfacing centering profiling etc)

## MACHINES, Spline Roller

Grob Inc Grafton Wis (Also gear)
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich "Roto-Flo"**

## MACHINES, Spring Making

Hautau-mation Inc 721 Wanda St Ferndale 20 Mich
Torrington Mfg Co 70 Franklin St Torrington Conn

## MACHINES, Straightening

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio**
Brandes Press Co 6408 Euclid Ave Cleveland 3 Ohio (Coil)
Cooper Weymouth Inc 600 Honeyspot Rd Stratford Conn (For small parts)
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y
**LITTELL MACHINE CO F J 4101 N Ravenswood Ave Chicago 11 Ill (Coil stock)**
**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio (Coil)**
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St S S Pittsburgh 3 Pa (Tubing)
Nilson Machine Co A H Bridgeport Ave Shelton Conn (Wire)
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
Yoder Co 5553 Walworth St Cleveland 2 Ohio (Coil)

## MACHINES, Superfinishing

**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Gisholt Superfinisher"**
Size Control Co Div American Gage & Machine Co 2500 Washington Blvd Chicago 12 Ill

## MACHINES, Swaging

Fenn Mfg Co Fenn Rd Newington Conn
Torrington Co 59 Field St Torrington Conn

## MACHINES, Tacking

Bostitch East Greenwich R I (One-hand automatic also air driven)
Eastern Duo-Fast Corp 176 Ave of the Americas N Y 13 N Y "Duo-Fast" (One-hand automatic)
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (One-hand automatic)
United Shoe Machinery Corp 140 Federal St Boston 7 Mass (One-hand automatic)

## MACHINES, Tapping

**(See also Tappers, Portable Electric also Tappers, Portable Pneumatic)**

Agnew Machine Co 121 S Main St Milford Mich

## MACHINES, Tapping—continued

Avey Drilling Machine Div of Motch & Merryweather Mchry Co 25 E Third St Covington Ky
Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Barnes Co W F & John 301 S Water St Rockford Ill (Horizontal and vertical)
Barnes Drill Co 826 Chestnut St Rockford Ill "Barnesdril"
Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass
Boice-Crane Co 930 W Central Ave Toledo 6 Ohio
Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill
Buhr Machine Tool Co 839 Green St Ann Arbon Mich "Economatic"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP" (Portable electric and pneumatic)**
Cleveland Tapping Machine Co Canton 6 Ohio
Drillmation Co 6500 E 11 Mile Rd Center Line Mich "Tapmatic"
Foote-Burt Co 13000 St Clair Ave Cleveland Ohio "Footburt"
Grant Mfg & Machine Co Silliman Ave Bridgeport 5 Conn
Greenlee Bros & Co 1702 Mason Ave Rockford Ill
Hamilton Tool Co 9th & Hanover Sts Hamilton O (Sensitive)
Hill Acme Co Acme Machinery Div 1201 W 65th St Cleveland 2 Ohio "Acme" (Nut and pipe coupling)
Kaufman Mfg Co 29th St & Meadow Lane Manitowoc Wis "Hi-Duty"
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Moline Tool Co 102 20th St Moline Ill "Hole Hog" (Multiple spindle)
Morris Machine Tool Co 2001 Eastern Ave Cincinnati 2 Ohio
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Procunier Safety Chuck Co 18 S Clinton St Chicago 6 Ill
Producto Machine Co 990 Housatonic Ave Bridgeport 1 Conn (Hand)
Rehnberg-Jacobson Mfg Co 2135 Kishwaukee St Rockford Ill
Rickert-Shafer Co 613 W 11th St Erie Pa "R-S"
Sibley Machine & Foundry Corp 206 E Tutt St South Bend 23 Ind
Snow Mfg Co 435 Eastern Ave Bellwood Ill
Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich
Universal-Automatic Corp 9545 Ainslie St Schiller Park Ill (Nut)
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio
Western Machine Tool Works 255 W Ninth St Holland Mich "Garvin"

## MACHINES, Tapping (Nut)

Acme Machinery Div Hill Acme Co 6300 Breakwater Ave Cleveland 2 Ohio
National Machinery Co Tiffin Ohio
Snow Mfg Co 435 Eastern Ave Bellwood Ill
Waterbury Farrel Foundry & Machine Co Div of Textron Inc 453 Bank St Waterbury 20 Conn (Automatic)
Zagar Tool Inc 24000 Lakeland Blvd Cleveland 23 Ohio

**MACHINES, TAPPING and DRILLING—See Machines, Drilling & Tapping**

## MACHINES, Tapping and Threading

Cleveland Tapping Machine Co Brook St Elmwood Conn
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

## MACHINES, Testing (Color)

**(For testing fastness to sunlight of auto fabric colors)**

Atlas Electric Devices Co 4114 N Ravenswood Ave Chicago 13 Ill

## MACHINES, Testing (Gear)

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Farrel-Birmingham Co 97 Main St Ansonia Conn
General Electric Co 1 River Rd Schenectady 5 N Y "Ultrasonics"
Gleason Works 1000 University Ave Rochester 3 N Y
Illinois Tool Works Tool & Instrument Div 2501 N Keeler Ave Chicago 39 Ill "ITW"
**MICHIGAN TOOL CO 7171 McNichols Rd E Detroit 12 Mich "SineLine"**
National Broach & Machine Co 5600 St Jean Ave Detroit 13 Mich "Red Ring"
Scherr-Tumico 200 Lafayette St New York 12 N Y
Vinco Corp 9111 Schaefer Highway Detroit 28 Mich

## MACHINES, Testing (Metal)

**(Tensile, compression, hardness, flaw, etc.)**

**(See also Instruments, Metal Testing)**

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "B-L-H" "I-V"
Barber-Colman Co 1300 Rock St Rockford Ill (Hand type)
Circo Co 51 Terminal Ave Clark N J (Ultrasonic)
Curtiss-Wright Corp Princeton Div PO Box 110 Princeton N J (Ultrasonic)
Dillon & Co W C 14620 Keswick St Van Nuys Calif
Gogan Machine Corp 1440 E 55th St Cleveland 3 Ohio
Magnaflux Corp 7328 W Lawrence Ave Chicago 31 Ill "Magnaflux" "Magnaglo" "Magnatest" (For flaws)
Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa
Peterson Machine Tool Inc Sonoflux Div 6200 Merriam Dr Merriam Kans "Sonoflux" (Magnetic)
Photocon Research Products 421 N Altadena Ave Pasadena 7 Calif "Metroscope" (Thickness)
Shore Instrument & Mfg Co 90-35 Van Wyck Expressway Jamaica 35 N Y "Scleroscope"
**SPERRY PRODUCTS CO 2903 Shelter Rock Rd Danbury Conn "Reflectoscope"; "Simac" (Ultrasonic)**
Steel City Testing Machines Inc 8817 Lyndon Ave Detroit 38 Mich
Teleweld Inc 11535 Franklin Ave Franklin Park 4 Ill "Telebrineller" (Portable hardness)
Testing Machines Inc 72 Jericho Turnpike Mineola N Y "TMI"
Torsion Balance Co 35 Monhegan St Clifton N J "Kentrall" "Kentron"
Wilson Mechanical Instrument Div American Chain & Cable Co 230 Park Ave New York 17 N Y "Rockwell" "Tukon" (Hardness)

## MACHINES, Testing (Plastic)

Dillon & Co W C 14620 Keswick St Van Nuys Calif
Olsen Testing Machine Co Tinius 2090 Easton Rd Willow Grove Pa
Testing Machines Inc 72 Jericho Turnpike Mineola N Y "TMI"

**MACHINES, TESTING (Pressure and Vacuum)—See Machines, Pressure and Vacuum Testing**

## MACHINES, Testing (Spring)

Chatillon & Sons John 85 Cliff St New York 38 N Y
Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn "C & M"
Ferner Co R Y 131 State St Boston Mass (Imported)
Link Engrg Co 13840 Elmira Ave Detroit 27 Mich
Olsen Testing Machine Co Tinius 2090 Easton Ave Willow Grove Pa
RCA Industrial & Machine Tool Automation 12605 Arnold St Detroit 39 Mich
Riehle Testing Machines Div American Machine & Metals Inc East Moline Ill
Toledo Scale Div of Toledo Scale Co Telegraph Rd Toledo 12 Ohio

## MACHINES, Testing (Weathering)

**(For testing action of sun, rain, heat and cold on finishes of bodies and other parts.)**

Atlas Electric Devices Co 4114 N Ravenswood Ave Chicago 13 Ill "Weather-Ometer"

## MACHINES, Thread Cutting

Champion Blower & Forge Co Harrisburg Ave & Charlotte St Lancaster Pa
Davis & Thompson Co 4460 N 124th St Milwaukee 18 Wis "Roto-Matic"
Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "H & G"
Economy Engineering Co 108 Vine St Willoughby Ohio (Automatic)
Fellows Gear Shaper Co 78 River St Springfield Vt
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Cri-Dan"**
Grant Mfg & Machine Co 90 Silliman Ave Bridgeport 5 Conn
House Machines Inc 809 S Pleasant St Montpelier Ohio
Kaufman Mfg Co 29th St & Meadow Lane Manitowoc Wis
Kent Machine Div Lamson & Sessions Co 113 Portage Trail Cuyahoga Falls Ohio
Landis Machine Co Fifth & Church Sts Waynesboro Pa "Landmaco" "Landhydro"
Oster Mfg Co 1340 E 289th St Wickliffe Ohio
Rickert-Shafer Co 613 W 11th St Erie Pa "R-S"
Snow Mfg Co 435 Eastern Ave Bellwood Ill
Toledo Pipe Threading Machine Co PO Box 1678 Toledo 3 Ohio

## MACHINES, Thread Grinding (Production)

Dalzen Mfg Co 4600 Bree Rd St Clair Mich
Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich "XLO"
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "J&L" (Automatic)
Landis Machine Co Fifth & Church Sts Waynesboro Pa (Centerless)
Sheffield Corp 721 Springfield St Dayton 1 Ohio

**MACHINES, THREAD MILLING—See Machines, Milling (Thread)**

## MACHINES, Thread Rolling

Bliss Co E W 1375 Raff Rd S W Canton Ohio
Economy Engrg Co 108 Vine St Willoughby Ohio
Hartford Special Machinery Co 287 Homestead Ave Hartford 12 Conn
Hause Machines Inc 809 S Pleasant St Montpelier Ohio
Landis Machine Co Fifth & Church St Waynesboro Pa "Lanhyrol"
National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco" (Hydraulic)
National Machinery Co Tiffin Ohio
Sheffield Corp 721 Springfield St Dayton Ohio
Waterbury Farrel Foundry & Machine Co Div of Textron Inc 453 Bank St Waterbury 20 Conn

**MACHINES, THREADING AND TAPPING—See Machines, Tapping and Threading**

## MACHINES, Tube Flaring

**(See also Tools, Tube Flaring)**

Leonard Precision Products Co 9200 Bolsa Ave Santa Ana Calif

## MACHINES, Tube Making

American Electric Fusion Corp 2610 Diversey Ave Chicago 47 Ill
Kane & Roach Inc Niagara & Shonnard Sts Syracuse 4 N Y (Radiator)
**McKAY MACHINE CO 825 W Federal St Youngstown 1 Ohio**
**YODER CO 5553 Walworth Ave Cleveland 2 Ohio**

## MACHINES, Uncoiling

Yoder Co 5500 Walworth Ave Cleveland 2 Ohio

## MACHINES, Vacuum Metallizing

NRC Equipment Corp 160 Charlemont St Newton 61 Mass

**MACHINES, VACUUM TESTING — See Machines, Pressure and Vacuum Testing**

## MACHINES, Washing (Mask)

Conforming Matrix Co Toledo Factories Bldg Toledo 2 Ohio

**MACHINES, WASHING (METAL PARTS)—See Machines, Degreasing and Washing (Metal Parts)**

**MACHINES, WELDING — See Welders and Equipment**

## MACHINES, Wheel Rim Rolling

McKay Machine Co 825 W Federal St Youngstown 1 Ohio

## MACHINES, Wire Splice (Horizontal)

AMP Inc Harrisburg Pa

## MACHINES, Wire Stripping (Electric)

American Electrical Heater Co Wassco Glo-Melt Div Woodward Cass & Burroughs Ave Detroit 2 Mich "Wassco"
High Speed Hammer Co 313 North St Rochester 21 N Y
Newark Brush Co Michigan Ave Kenilworth N J

## MACHINES, X-Ray

General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wis
Philips Electronic Instruments 750 S Fulton Ave Mt Vernon N Y
Sperry Products Co Div of Howe Sound Co 2903 Shelter Rock Rd Danbury Conn "T & B"

Westinghouse Electric Corp X-Ray & Industrial Electronics Div 2519 Wilkens Ave Baltimore 3 Md "Micronex" "Productograph"

## MAGNESIUM

**DOW CHEMICAL CO Midland Mich (Sheet and extrusions)**

**MAGNESIUM ALLOYS — See Alloys, Magnesium**

**MAGNESIUM CASTING—See Castings, Magnesium**

**MAGNETIC DRAIN PLUGS—See Plugs, Drain (Magnetic)**

**MAGNETO COUPLINGS — See Couplings, Magneto, Generator and Water Pump**

**MAGNETO PARTS—See Parts, Magneto, Coil and Distributor**

## MAGNETOS, Ignition

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass
Fairbanks Morse & Co Lawton Ave Beloit Wis
Scintilla Div Bendix Corp Sidney N Y "Bendix"
Wico Ignition Div Globe-Union Inc West Springfield Mass

## MANDRELS, Expanding

Chicago-Latrobe 426 W Ontario St Chicago 10 Ill
Erickson Tool Co 34350 Solon Rd Solon Ohio
Lee Co K O Congress at First Ave S E Aberdeen S D
Logansport Machine Co 860 Center Ave Logansport Ind "Logan" (Pneumatic and hydraulic)
**S-P MFG CO 30201 Aurora Rd Solon Ohio**
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill "Roll-Lock"
Woodworth Co N A 1300 E 9 Mile Rd Detroit 20 Mich

## MANIFOLDS, Intake and Exhaust (Auto)

Almquist Engrg Co Milford Pa (Dual intake)
Continental Motors Corp Muskegon 82 Mich
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit Mich "Steelbestos"
Edelbrock Equipment Co 4921 W Jefferson Blvd Los Angeles 16 Calif (Special intake)
General Products Corp 103 N Horton St Jackson Mich (Tractor)
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill

**MANIFOLDS, WIRING (Metal)—See Conduit, Flexible Car Wiring**

**MARKING MACHINES—See Machines, Marking**

**MASKING COMPOUNDS, PASTES AND PAINTS—See Compounds, Masking**

**MASKING TAPE—See Tape, Masking**

**MASK WASHING MACHINES — See Machines, Washing (Mask)**

**MATERIALS, MOLDING (PHENOLIC, UREA, CELLULOSE ACETATE, etc.)—See Plastics —Materials**

**MATS, CARPET—See Carpet, Auto**

**MATS, LINOLEUM — See Coverings, Floor (Bus or Truck)**

## MATS or MATTING, Rubber

Ace Rubber Products Inc 100 Beech St Akron Ohio
Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex" (Mats)
Baldwin Rubber Co 366 S Boulevard E Pontiac Mich (Mats)
Better Monkey Grip Co 5320 Harry Hines Blvd Dallas 22 Tex "Monkey Grip" "Feather Grip" (Mats sole distributors Monkey Grip Sales Co 5320 Harry Hines Bldg Dallas 22 Tex)
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass (P O Box 1071 Boston 3 Mass) "Boston" "Kleen-rite" "Roto-Loom" "Nu-Tred" (Matting)
Continental Rubber Works 1946 Liberty St Erie Pa (Matting)
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Dayton Industrial Products Co Div Dayco Corp 2201 Janice Ave Melrose Park Ill
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex"
Egan Mfg Co H B P O Box 1406 Muskogee Okla "Carpets" (Flexible rubber)
Fabric Sales Inc 97 Chestnut St Newark 5 N J (Mats)
Fargo Rubber Corp 137 E 58th St Los Angeles 11 Calif
Fulmer Arthur 260 Monroe Ave Memphis 1 Tenn "Ful-Pro-Tex" (Front rear and trunk)
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco" (Mats)
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa (Mats)
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Kraco Products Inc 2411 W Santa Fe Ave Compton Calif "Continental" "Esquire" Imperial" "Monarch" "Lancer" "Regal" (Mats)
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Newark Auto Top Co 101 Central Ave Newark 2 N J (Mats)
Niagara Fabric Mfg Co 26 Waverly Pl New York 3 N Y
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Richardson Co Lockland Ohio
Rubbermaid Inc E Bowman St Wooster Ohio "Rubbermaid Kar-Rugs" "Stylemaster Kar-Rugs" "Krestliner Kar-Rugs"
Seiberling Rubber Co Akron 9 Ohio (Mats)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Zink Corp Howard Jackson & Napoleon Sts Fremont Ohio

## MATTING, Aluminum

Erdle Perforating Co 171 York St Rochester 11 N Y "Pyrma"
Zenite Metal Corp P O Box 939 Blytheville Ark

**METAL, BODY FILLING—See Solder**

**METAL FORMING MACHINES (Wire and Ribbon)—See Machines, Forming (Metal)**

**METALLIZING WIRE—See Wire, Metallizing**

**METALLURGY, POWDER—See Parts Metallic Powder**

**METAL PARTS DRYERS—See Machines, Drying (Metal Parts)**

**METAL SPRAY GUNS—See Sprayers, Molten Metal**

**METAL TESTING COMPOUNDS—See Compounds, Metal Testing**

**METAL TESTING INSTRUMENTS—See Instruments, Metal Testing**

**METAL TESTING MACHINES — See Machines, Testing (Metal)**

**METALLIC BELLOW SEALS — See Seals, Metallic Bellow**

## METALS, Bearing

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum alloy)
Bearium Metals Corp Mill & Commercial Sts Rochester 14 N Y (Bronze)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass
Bound Brook Oil-Less Bearing Co Lincoln Blvd Bound Brook N J
Buckeye Brass & Mfg Co 6410 Hawthorne Ave Cleveland 3 Ohio "Buckeye" "Hy-Speed" "Lubrico" "Premier"
Bunting Brass & Bronze Co 715 Spencer St Toledo 9 Ohio (Bronze)
Burlington Brass Works Burlington Wis "B-M-C"
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn (Bronze)
Division Lead Co 7742 W 61st Pl Summit Ill "Divco"
Federated Metals Div of American Smelting & Refining Co 120 Broadway New York 5 N Y "Federated" "Merit Brand" "XXXX Nickel" (Nickel babbitt)
Johnson Bronze Co 510 S Mill St New Castle Pa
Lumen Bearing Co 197 Lathrop St Buffalo 12 N Y "Machinebronze" (Bronze: "Lotus" "Stannum" "Old Genuine" babbitt)
Magnolia Metal Co 800 McCarter Highway Newark N J "Adamant" "Power" "Defender" "DZL" "Magnolia" "Pyramid"
Moccasin Bushing Co 2000 Chestnut St Chattanooga Tenn (Bronze bars)
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
National Lead Co 111 Broadway New York 6 N Y "Dutch Boy"
North American Smelting Co Marine Terminal Wilmington Del (Babbitt)
Pittsburgh Brass Mfg Co 3155 Penn Ave Pittsburgh 1 Pa
Randall Graphite Bearings Inc Greenlawn & Lake Sts Lima Ohio (Bronze bars)
River Smelting & Refining Co 4195 Bradley Rd Cleveland Ohio "River R S"
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill "Glyco"
Scully Foundry & Machine Co 66 S River St Coxsackie N Y
True Alloys Inc 284 S Summit St Detroit 9 Mich
**UNITED STATES GASKET CO Plastics Div of Garlock Packing Co Camden 1 N J "DU"**

## METALS, Perforated

Chicago Perforating Co 2445 W 24th Pl Chicago Ill
**CROSS PERFORATED METALS PLANT NATIONAL-STANDARD CO Carbondale Pa**
Diamond Mfg Co 243 W Eighth St Wyoming Pa
Erdle Perforating Co 171 York St Rochester 11 N Y
**HARRINGTON & KING PERFORATING CO 5655 Fillmore St Chicago 44 Ill**
Hendrick Mfg Co Carbondale Pa
Mundt & Sons Charles 53 Fairmount Ave Jersey City 4 N J
**REYNOLDS WIRE Div National-Standard Co 809 E Second St Dixon Ill (Steel aluminum and brass)**
Rigidized Metals Corp 769 Ohio St Buffalo 3 N Y
Wire Cloth Products Inc 2801 Congress St Expressway Bellwood Ill

## METALS, Powdered

**(For products made by powder metallurgy—See Parts, Metallic Powder)**

Alan Wood Steel Co Conshohocken Pa (Iron)
American Platinum & Silver Div Englehard Industries Inc 231 N J R R Ave Newark 5 N J
Belmont Smelting & Refining Works, 326A Belmont Ave Brooklyn 7 N Y
Bound Brook Oil-Less Bearing Co Lincoln Blvd Bound Brook N J "Compo" "Powd-iron"
Delco Moraine Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio
Glidden Co Chemicals-Pigments-Metals Div 1717 Summer St Hammond Ind (Lead copper alloy and filter)
Hoeganese Sponge Iron Corp Riverton N J "Ancor" "Ancor-Flame" (Iron stainless steel)
Johnson Bronze Co 510 S Mill St New Castle Pa
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind "Elkonite" (Copper base)
Metals Disintegrating Co Box 290 Elizabeth B N J "MD"
New Jersey Zinc Co 160 Front St New York 38 N Y (Brass nickel-silver copper and zinc)
Plastic Metals Div National-U S Radiator Co 4800 Bridge St Johnstown Pa "Plast-Iron" "Plast-Manganese" "Plast-Nickel" "Plast-Steel" "Plast-Silicon" (Iron nickel manganese silicon steel etc)
Vanadium-Alloys Steel Co Latrobe Pa (Steel)
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy"
Wilson Co H A 2655 U S Route 22 Union N J

**METALS, THERMOSTATIC—See Bi-Metals, Thermostatic**

## METERS, Engine Hour (Truck)

Engler Instrument Co 250 Culver Ave Jersey City 5 N J
Hobbs Div Stewart-Warner Corp John W Yale Blvd & Ash St Springfield Ill

**METERS, FLOW—See Flowmeters**

**METERS, OIL TEMPERATURE INDICATING—See Gages, Oil Temperature Indicating**

**METERS, WATER TEMPERATURE INDICATING — See Gages, Water Temperature Indicating**

## METERS, Watt-Hour

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

## METERS or ODOMETERS, Distance Recording

**(For combined odometers and speedometers—See Speedometers)**

Actuator Products Corp 40 Nashua St Woburn Mass "Apcor"
Barbour-Stockwell Instruments Div of Curtis & Marble Machine Co 80 Cambridge St Worcester 3 Mass "Reliance"
Engler Instrument Co 250 Culver Ave Jersey City 5 N J

## METERS OR ODOMETERS, Distance Recording—continued

King-Seeley Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S"
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
United States Taximeter Co 514 W 54th St New York 19 Y "Ustcograph"
Veeder-Root Inc 20 Sargeant St Hartford Conn

## MICA, Sheets, Tubes, Washers and Cores

Asheville-Schoonmaker Mica Co Newport News Va
**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Micabond"**
Mica Insulator Div of Minnesota Mining & Mfg Co 801 Broadway Schenectady N Y "Isomica" & "Micanite"
Mycalex Corp of America 125 Clifton Blvd Clifton N J (Glass-bonded sheets and rods)

## MICROMETERS

(See also Gages, Cylinder)

Acme Industrial Co 200 N Laflin St Chicago 7 Ill (Chamfer gage)
Ames Co R C 12 Ames St Waltham 54 Mass
Ammco Tools Inc 2100 Commonwealth Ave North Chicago Ill (Brake drum)
Bath & Co John 10 Mann St Worcester 2 Mass (Internal)
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Central Tool Co 456 Wellington Ave Cranston 10 R I "Central" "Read-Rite"
Do All 254 N Laurel Ave Des Plaines Ill
Federal Products Corp 1144 Eddy St Providence 1 R I "Mikemaster" (Indicating)
Glass Laboratories Inc 863 65th St Brooklyn 20 N Y (Sole distributors Kromedge Dist Co 863 65th St Brooklyn 20 N Y)
Hanson Co Henry L 25 Union St Worcester 8 Mass "Ace"
Keystone eHamer &Tool Co Millersburg Pa
Lufkin Rule Co 1730 Hess Ave Saginaw Mich (Crankshaft inside outside etc)
Millers Falls Co 57 Wells St Greenfield Mass
National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco"
Pratt &Whitney Co Charter Oak Blvd West Hartford 1 Conn "P & W Supermicrometer"
Scherr-Tumico 200 Lafayette St New York 12 N Y "Tumico"
Slocomb Co J T 68 Matson Hill Rd South Glastonbury Conn "Speedmike"
Star Machine & Tool Co 201 Sixth St S E Minneapolis 14 Minn
Starrett Co L S 1 Crescent St Athol Mass
Swedish Gage Co of America 10641 Haggerty Ave Dearborn 1 Mich
Testing Machines Inc 72 Jericho Turnpike Mineola N Y "TMI"
Van Keuren Co 176 Waltham St Watertown Mass (Light wave)

**MILLING CUTTERS—See Cutters, Milling**
**MILLING MACHINE ATTACHMENTS — See Attachments, Milling Machines; also Chucks, Milling Machines**
**MILLING MACHINES—See Machines, Milling**
**MILLS, PAINT GRINDING AND MIXING—See Machines, Kneading and Mixing**
**MIRROR BRACKETS—See Brackets, Mirror**

## MIRRORS, Rear View

Acme Specialty Mfg Co 2298 Smead Ave Toledo 6 Ohio (Bus and truck)
Anderson Co 1075 Grant St Gary 40 Ind "Anco"
Anthes Force Oiler Co Ft Madison Iowa "Anthes" (Truck) "Panoram" "TruVue" (West coast type)
Argus Mfg Co 1134 N Kilbourne Ave Chicago 51 Ill (Truck)
Arrow Safety Device Co Mt Holly N J
Arvin Industries Inc 13th St & Big Four RR Columbus Ind
Aves Mfg Co 4211 Redwood Ave Los Angeles 66 Calif "Aeco" "Cobra"
Bolser Corp S Main St Cedar Falls Iowa "Ful-Vue" (Truck including west coast type)
Delbar Products Inc Seventh & Spruce Sts Perkasie Pa (Truck)
Dietz Co R E 225 Willinson St Syracuse 1 N Y (Truck)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Sturdi-Built" (Truck and bus)
Du-Wel Metal Products Inc PO Box 307 Bangor Mich
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio
Griffin Lamp Co Shelby Miss (Truck)
Grote Mfg Co State Route 7 Madison Ind
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind "Glare-Proof"
Hall Products Div of C M Hall Lamp Co 1035 E Hancock Ave Detroit 7 Mich "Hallmark"
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
King-Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Liberty Mirror Div Libbey - Owens - Ford Glass Co 751 Third Ave Brackenridge Pa "E-Z-I" (Inside; "Cromir" outside)
**MIRO-FLEX CO 1824 E Second St Wichita 7 Kans**
Monarch Governor Co 2800 Tyler Rd Willow Run Mich
Monarch Tool & Machinery Co 3435 S Racine Ave Chicago 8 Ill (Auto and truck)
Namsco Inc 333 31st Ave Bellwood Ill "National"
Nelmor Mfg Corp 26420 Lakeland Blvd Euclid Ohio
Norlipp Co 5929 S Lowe Ave Chicago 21 Ill
Power Brake Parts Mfg Co 3441 S Racine Ave Chicago 8 Ill "Giant" "King" "Perfect" (Truck)
Prutsman Defrosto Mirrors Inc 660 S Myers St Los Angeles 23 Calif "Defrosto"
Regency Accessory Div of U S Metal Products Co 1045 Atlantic Ave Brooklyn 38 N Y
Roberk Co P O Box 940 Norwalk Conn
Royal Engrg Co Pleasant Plains Ill "Power Mirror" (Electric rotating remote control for trucks)
S & M Lamp Co 2369 E 51st St Los Angeles 54 Calif
Sparton Automotive Div Sparton Corp Jackson Mich (Commercial vehicle and truck)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis
Standard Mirror Co 141 Milton St Buffalo 10 N Y
Supersite Corp 300 Seymour Ave Derby Conn "Dandee" "Supersite"
U S Metal Products Co 1045 Atlantic Ave Brooklyn 38 N Y "US Pioneer"
Unity Mfg Co 2909 Indiana Ave Chicago 16 Ill
Velvac Inc 3534 W Pierce St Milwaukee 45 Wis "Velvac" "Norvac" "Aerovac"
Visionade Mfg Co 200 Kosciusko St Brooklyn 16 N Y "Seeall" "Panoscopic"
Yankee Metal Products Corp 25 Grand St Norwalk Conn "Side-Vue" (Auto; "Brite-Vue" truck; also combination mirror and spot light)

**MIST ELIMINATORS—See Eliminators, Mist**
**MIXING MACHINES—See Machines, Kneading and Mixing**
**MOLDED PARTS, Plastic — See Plastics, Molded**
**MOLDED PARTS, Rubber — See Rubber, Molded**
**MOLDED PARTS, Synthetic Rubber — See Rubber, Synthetic (Processed)**

## MOLDING, Drip (Metal)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa" (Aluminum)
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn (Brass and nickel-silver)
Lees Div of Serrick Corp John 1300 Batavia St Muncie Ind (Stainless steel and aluminum)
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
Peninsular Metal Products Corp 1365 Jarvis St Detroit 20 Mich
RPM Products Inc 17260 Gable St Detroit 12 Mich
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y (Brass and aluminum)
Reynolds Metals Co 6601 Broad St Richmond 19 Va (Aluminum)
Zenite Metal Corp P O Box 939 Blytheville Ark (Aluminum and steel)

## MOLDING, Finish (Metal)

Adams Co S G 920 Olive St St Louis 1 Mo
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa" (Aluminum)
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn (Brass)
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Croname Inc 6201 Howard St Chicago 48 Ill (To order)
Dahlstrom Metallic Door Co Special Products Div 429 Buffalo St Jamestown N Y
Del-Krome Corp 44 West St Walton N Y "Unishields" (Door garnish)
Delta Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Detroit Moulding Div of Young Spring & Wire Corp 4647 4th St Ecorse Mich (Steel)
Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich
Edgar Corp 1341 Wanda Ave Ferndale 20 Mich
Excel Corp 1120 N Main St Elkhart Ind "XL"
Fifty Div of Hayes Industries Inc Bryan Ohio (Steel)
Groboski Industries Inc 4344 S Western Ave Chicago Ill "Styleking"
Hayes Industries Inc Wildwood & Fern Aves Jackson Mich
Keystone Metal Moulding Co 1641 Stephens St East Detroit Mich (Stainless Steel)
Kinkead Industries Inc 5860 N Pulaski Rd Chicago 30 Ill "Kintrim"
Lees Div of Serrick Corp John 1300 Batavia St Muncie Ind (Stainless steel and aluminum)
Merrimac Brass 22 High St Merrimac Mass (Lead filled brass nickel and chromium plated)
Metal Forming Corp 1937 Sterling Ave Elkhart Ind "Mefco"
Mirro Aluminum Co Manitowoc Wis (Aluminum)
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
Peninsular Metal Products Corp 1365 Jarvis St Detroit 20 Mich
Porter Co H K Coldform Div Frankfort Works Frankfort Ky (Steel)
Pyramid Mouldings Inc 5353 W Armstrong Ave Chicago 30 Ill
RPM Products Inc 17260 Gable St Detroit 12 Mich
Randall Co 5000 Spring Grove Ave Cincinnati Ohio (Steel)
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y (Brass and aluminum)
Reynolds Metals Co 6601 Broad St Richmond 19 Va (Aluminum)
Roll Formed Products Co 3765 Oakwood Ave Youngstown Ohio
Western Mouldings Inc 1111 E Eighth St Upland Calif
Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich (Garnish)
Zenite Metal Corp P O Box 939 Blytheville Ark (Aluminum brass and steel)

## MOLDING, Finish (Plastic)

Anchor Plastics Co 36-36 36th St Long Island City 6 N Y "Plastic Krome"
Glass Laboratories Inc 863 65th St Brooklyn 20 N Y "Silvatrim"

**MOLDING MACHINES (Metal) — See Machines, Molding (Metal Foundry)**
**MOLDING MATERIALS — See Plastics — Materials**
**MOLDING PRESSES, PLASTIC—See Presses, Plastic Molding**
**MOLDING ROLLING MACHINES—See Machines, Rolling (Strip)**

## MOLYBDENUM

Climax Molybdnum Co 500 Fifth Ave N Y 36 N Y "Climet TM" (Metallic)
Fansteel Metallurgical Corp 2200 Sheridan Road North Chicago Ill
**MOLYBDENUM CORP OF AMERICA 2 Gateway Center Pittsburgh 22 Pa**

**MOLYBDENUM ALLOYS—See Alloys, Molybdenum**
**MOLYBDENUM FORGINGS — See Forgings, Molybdenum**
**MONEL METAL CASTINGS — See Castings, Monel Metal**

## MONEL METAL, Sheets, Strips and Rods, Hot and Cold Rolled

Alloy Metal Wire Co 13th & Pennsylvania Aves Moores Prospect Park Pa

## MONOGRAMS, INITIALS and EMBLEMS, Ornamental

Acromark Co 9 Morrell St Elizabeth 4 N J
Anderson & Sons Inc N Elm St Westfield Mass "Ansolite"
Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich (Emblems)
Auld Co D L 5th Ave & 5th St Columbus 1 Ohio (Emblems)
Benmatt Industries Inc 3447 E 15th St Los Angeles 23 Calif (Monograms)
Croname Inc 6201 Howard St Chicago 48 Ill
Douglas Co 620 12th Ave Minneapolis 4 Minn
Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y (Emblems)
Fox Co 3400 Beekman St Cincinnati 23 Ohio
Gem Mfg Co 2535 South State St Chicago 16 Ill
Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis
Signa-Craft Inc 5777 Grant Ave Cleveland 5 Ohio "Autograms" (Initials and emblems)

**MONORAIL TROLLEYS—See Trolleys, Monorail**

## MOSS, Upholstery

(See also Hair, Upholstery; also Felt, Upholstery)

American Forest Products Co Box 911 Norristown Pa

**MOTOR GENERATORS — See Generators, Electric (Auto)**

**MOTOR STARTERS—See Starters, Motor, for Factories**

**MOTOR STARTING COMPENSATORS — See Compensators, Motor Starting (Industrial)**

**MOTOR TRUCKS—See Trucks, Motor**

## MOTORS, Air Operated

Bellows-Valvair Div of International Basic Economy Corp 222 W Market St Akron 9 Ohio

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**

Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Tex

Gardner-Denver Co S Front St Quincy Ill

Leiman Bros Inc 166 Christie St Newark 5 N J

Onsrud Machine Works Inc 7720 N Lehigh Ave Niles 48 Ill

Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio

**MOTORS, CRANKING—See Motors, Starting (Air); also Motors, Starting (Electric)**

## MOTORS, Electric (Aircraft Use)

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y**

**LAMB ELECTRIC CO Kent Ohio**

## MOTORS, Electric, Automotive Use (F.H.P.)

American Bosch Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass (For seat adjusters top lifts and window lifts windshield wipers etc)

Barber-Colman Co 1300 Rock St Rockford Ill "Barcol" (Sub)

Delco Appliance Div General Motors Corp 391 Lyell Ave Rochester N Y

Electric Autolite Co Toledo 1 Ohio "Autolite"

Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill

General Armature & Mfg Co Box 370 Lock Haven Pa (For heaters windshield wipers etc to order)

General Industries Co Olive St Elyria Ohio (For heaters defrosters window lifts and windshield wipers)

Hertner Electric Co 12690 Elmwood Ave Cleveland 11 Ohio

**LAMB ELECTRIC CO Kent Ohio**

Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio

Lydon-Bricher Mfg Co 2500 University Ave St Paul 14 Minn "L-B" (For fans heaters etc )

Redmond Co Owosso Mich "Micromotor"

Storm-King Products Co 148-08 95th Ave Jamaica N Y (For heaters)

## MOTORS, Electric, for Driving Machinery

Abart Gear & Machine Co 4832 W 16 St Chicago 50 Ill (Also gearmotors)

Adams Engrg Co 31711 Solon Rd Solon 39 Ohio "Adaloy" (Gearmotors)

Allis-Chalmers Mfg Co Milwaukee 1 Wis

Allis Co Louis 427 E Stewart St Milwaukee 1 Wis "Syncro-Spede" (Synchronous a c "Flexitorq" d c motors and generators)

Atlas Press Co 1842 N Pitcher St Kalamazoo Mich (Fractional )

Baldor Electric Co 4351 Duncan Ave St Louis 10 Mo

Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 N J

Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass "Rationmotor" (Gearmotors)

Century Electric Co 1806 Pine St St Louis 3 Mo

Continental Electric Co 325 Ferry St Newark 5 N J

Delco Appliance Div General Motors Corp 391 Lyell Ave Rochester N Y (Fractional)

Delco Products Div General Motors Corp 329 E First St Dayton 1 Ohio

Doerr Electric Co 510 N Fourth Ave Cedarburg Wis (also gearmotors)

Dumore Co 1300 17th St Racine Wis (Fractional)

Eaton Mfg Co Dynamatic Div 3122 14th Ave Kenosha Wis "Adjusto-Spede Drive" (Also fractional)

Electric Motor Corp Div of Howard Industries Inc 1760 State St Racine Wis "EMC" (Fractional)

Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio

Electro Dynamic Div General Dynamics Corp Bayonne N J

Elliott Co Jeannette Pa

Emerson Electric Mfg Co 8100 Florissant Ave Detroit 21 Mich

Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill

Falk Corp Box 492 Milwaukee 1 Wis "All Motor" "Motoreducers" (Gearmotors)

Ferguson Machine Corp 7818 Maplewood Industrial Ct St Louis 17 Mo

Foote Bros Gear & Machine Corp 4545 S Western Blvd Chicago 9 Ill (Gearmotors)

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E" "Kinamatic" & "Tri-Clad" (Also gearmotors)

General Electric Co Direct Current Motor & Generator Dept 3001 E Lake Rd Erie Pa

Hertner Electric Co., 12690 Elmwood Ave Cleveland 11 Ohio

Howard Industries Inc 1760 State St Racine Wis

Howell Electric Motors Co 409 N Roosevelt St Howell Mich (Also gearmotors)

Kingston-Conley Co 900 North Ave Plainfield N J

L & R Mfg Co 577 Elm St Kearny N J (Fractional)

**LAMB ELECTRIC CO Kent Ohio (Fractional; also gearmotors)**

Leland Ohio Electric Co 1501 Webster St Dayton 4 Ohio

Lima Electric Motor Co Findlay Rd Lima Ohio

Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio "Multiguard"

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill (Also "Motogear" gearmotors)

Marathon Electric Mfg Corp Wausau Wis

Master Electric Div Reliance Electric & Engrg Co 126 Davis Ave Dayton 1 Ohio "Duty Master" "Master" (Gearmotors)

**MICHIGAN TOOL CO Cone Drive Gear Div 7171 McNichols Rd E Detroit 12 Mich "Cone-Drive" (Gearmotors)**

O E M Products Co 5296 Northwest Highway Chicago 30 Ill "Uni-Fit" (For heaters and defrosters)

Packard Electric Div General Motors Dana St Warren Ohio

Peerless Electric Div H K Porter Co 1401 W Market St Warren Ohio

Philadelphia Gear Corp King of Prussia Pa (Gearmotors)

**POPE MACHINERY CORP 261 River St Haverhill Mass (Custom built)**

Reliance Electric & Engineering Co 24701 Euclid Ave Cleveland 17 Ohio

Reuland Electric Co 3001 W Mission Rd Alhambra Calif

Reynolds Electric Co 3000 River Rd River Grove Ill "Reco" (Fractional)

Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio

Smith Corp A O 27th & Hopkins Sts Milwaukee 1 Wis

SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor Speed Motors"

Sterling Electric Motors Inc 5401 Telegraph Rd Los Angeles 22 Calif (Also "Slo-Speed" gearmotors)

U S Electrical Motors Inc 200 E Slauson Ave Los Angeles 54 Cal "Varidrive" "Syncrogear" "Uniclosed" "AutoStart"

Universal Electric Co 300 E Main St Owosso Mich (Fractional)

Valley Electric Corp 4221 Forest Park Blvd St Louis Mo

**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

Walker-Turner Div Rockwell Mfg Co 400 N Lexington Ave Pittsburgh 8 Pa

Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y

Westinghouse Electric Corp Small Motor Div Lima Ohio (Fractional)

## MOTORS, Electric (High Cycle)

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

Onsrud Machine Works Inc 7720 W Lehigh Ave Niles 48 Ill

## MOTORS, Electric Truck

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

## MOTORS, Hydraulic

Barnes Corp John S 301 S Water St Rockford Ill

Berry Hydraulics a Div of Oliver Tyrone Corp Oliver Bldg Pittsburgh 22 Pa

Char-Lynn Co 2843 26th Ave S Minneapolis 6 Minn

Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio

Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio "Denison Hydrolic"

Dynex Inc 777 Dynex St Pewaukee Ill

Hein-Werner Corp 1200 National Ave Waukesha Wis

Hupp Aviation Div Hupp Corp 6633 W 65th St Chicago 38 Ill "Hydroid"

Hydraulic Power Div Hydraulic Press Mfg Co 1000 Marion Rd Mt Gilead Ohio "H-P-M"

New York Air Brake Co Hydreco Div Kalamazoo Mich "Hydreco"

Oilgear Co 1560 W Pierce St Milwaukee 4 Wis

Sundstrand Hydraulics Div of Sundstrand Corp 2210 Harrison Ave Rockford Ill

Tuthill Pump Co 939 E 95th St Chicago 19 Ill

Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich

Vickers Inc Mobile Hydraulics Div Administrative & Engrg Center Detroit 32 Mich

Webster Electric Co 1900 Clark St Racine Wis

Wisconsin Hydraulics Inc 3165 N 30th St Milwaukee 16 Wis

## MOTORS, Starting (Air)

**BENDIX - WESTINGHOUSE AUTOMOTIVE AIR BRAKE CO 901 Cleveland Rd Elyria Ohio "Startaire"**

Gardner-Denver Co S Front St Quincy Ill

Ingersoll-Rand Co 11 Broadway New York 4 N Y

**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**

## MOTORS, Starting (Electric)

American Generator & Armature Co 6100 W Grand Ave Chicago 39 Ill

Arrow Armature Co 15 Fordham Rd Boston 34 Mass

**DELCO-REMY Div General Motors Corp 2401 Columbus Ave Anderson Ind**

**ELECTRIC AUTOLITE CO Toledo 1 Ohio "Autolite Co-Ax"**

General Armature & Mfg Co Box 370 Lock Haven Pa "BV"

Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio "L-N" (For gas and Diesel engines)

## MOTORS, Starting (Hydraulic) (For Gasoline or Diesel Engines)

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass "Hydrotor"

Detroit Diesel Engine Div General Motors Corp 13400 W Outer Drive Detroit 28 Mich "Hydrostarter" (Systems for Diesel engines)

**MOTORS, VACUUM—See Parts, Windshield Wiper**

## MOUNTINGS, Rubber Insulated

(For engines, bodies, instruments, etc. —See also Shackles, Spring)

Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex" (Engine)

Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill

Bushings Inc 4358 Coolidge Highway Royal Oak Mich "Rubberflex"

Champ-Items Inc 6191 Maple Ave St Louis Mo (Engine for Ford and Chevrolet cars)

Clevite Harris Products Inc Lockwood Rd Milan Ohio "Silentbloc" "Hyperbloc"

Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex" (Engine)

Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio

General Tire & Rubber Co Industrial Products Div Wabash Ind "Silentbloc" (Licensees)

Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa

Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio (Engine and radiator)

Goshen Rubber Co 609 E Iowa St Goshen Ind

Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio

Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"

**LORD MFG CO 1635 W 12th St Erie Pa (Engine)**

MB Mfg Co 1060 State St New Haven 11 Conn "Isomode"

Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"

Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco"

Perfect Parts Inc 43 W 23rd St N Y 10 N Y

Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y

Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"

Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio

## MOUNTINGS, Rubber Insulated —continued

Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Stillman Rubber Co 5811 Marilyn Ave Culver City Calif
United States Rubber Co., Rockefeller Center 1230 Ave of the Americas New York 20 N Y (Engine)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

**MUFFLER CLAMPS—See Clamps, Muffler**
**MUFFLER PARTS—See Parts, Muffler**

## MUFFLERS, Exhaust (Auto, Truck and Bus)

AP Parts Corp AP Bldg 1801 Spielbusch Ave Toledo 1 Ohio (For autos buses trucks and tractors)
Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa "ATI" (Truck and bus)
Almquist Engrg Co Milford Pa "Twin-Tone"
Arvin Industries Inc 13th St & Big Four RR Columbus Ind
Coachcraft Ltd 9015 Santa Monica Blvd Hollywood 46 Calif (Truck)
Compo Corp Defiance Ohio
De Koven Mfg Co 1201 Michigan Blvd Racine Wis "Pacemaker" & "Soundmaster"
Donaldson Co 666 Pelham Blvd St Paul 14 Minn (Truck)
Douglas Muffler Mfg Corp 5636 Shull St Bell Gardens Calif
Ero Mfg Co 714 W Monroe St Chicago Ill
Fifty Plus Five Corp 214 Defiance St West Unity Ohio (For Buick Oldsmobile and Pontiac Cars)
Goerlich's 619 Smith St Toledo 1 Ohio "Dynatone" "Goerlich" "Dyna-Glas" "Silentone" "Par"
Grand Automotive Products 2055 N Ruby St Melrose Park Ill "Quiet Tone"
Haviland Co Arnold 1008 S Jackson St Defiance Ohio "Sportsman"
Hayes Industries Inc Wildwood and Fern Aves Jackson Mich
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill "Midas"
International Stamping Co E Wisconsin St Hartford Wis
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power"
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
MacKenzie Muffler Co 460 N Meridian Rd Youngstown 9 Ohio
Maremont Muffler Div of Mar Pro Inc 168 N Michigan Ave Chicago 1 Ill (Auto truck and bus)
Metco Inc Beaver Dam Wis (Auto industrial trucks etc)
Nelson Muffler Corp Stoughton Wis (For buses trucks and tractors)
Northern Tube Co Pinconning Mich
Ohio Parts Inc 307 Perry St Defiance Ohio "Diplomat" "Ohio Pep" "Goldtone"
Oldberg Mfg Co 620 N Seventh St Grand Haven Mich
Powell Muffler Co 4235 W 42nd Pl Chicago 32 Ill "Powell"
Pratt Muffler Div of Mar Pro Inc 168 N Michigan Ave Chicago Ill
Riker Mfg Inc 4901 Stickney Ave Toledo 11 Ohio (For trucks and buses)
Saco-Lowell Automotive Div Saco-Lowell Shops Box 111 Saco Me
Smithy's Muffler Co 6009 S Malt Ave Los Angeles 22 Calif
Stemco Mfg Co Industrial Blvd Longview Tex
Teck Industries 679 Oakland Park Ave Columbus Ohio (Truck and bus)
Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis "Silencers" (Individually tuned)

**MUFFLERS, INTAKE CARBURETOR — See Silencers, Carburetor Intake**
**NAME PLATES — See Plates, Name (Metal and Plastic)**
**NEOPRENE RUBBER—See Rubber, Synthetic**

## NIBBLERS, Portable Electric

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
Fenway Machine Co 3107 N Broad St Philadelphia Pa (Sole distributors Ensco Products Inc 100 Morgan Rd Ypsilanti Mich)
Modern Mfg Co 680 Davisville Rd Willow Grove Pa

## NIBBLERS, Portable Pneumatic

Fenway Machine Co 3107 N Broad St Philadelphia Pa
Modern Mfg Co 680 Davisville Rd Willow Grove Pa

**NIBBLING MACHINES—See Machines, Nibbling**
**NICKEL CASTINGS—See Castings, Nickel; also Castings, Nickel-Chromium**
**NICKEL-CHROMIUM ALLOYS — See Alloys, Nickel-Chromium**

## NICKEL-CHROMIUM (Sheets, Strips and Rods)

Driver-Harris Co Harrison 5 N J "Nichrome" (Rod wire and strip)

## NICKEL, Pig and Shot

**(For alloying with steel, cast iron and other non-ferrous metals)**

Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Niagara Falls Smelting & Refining Div Continental-United Industries Co 2204 Elmwood Ave Buffalo N Y "Falls" (Shot)

## NICKEL, Sheets, Strips, Rods

Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Alloy" (Wire rod and strip)

## NICKEL-SILVER

Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Chicago Extruded Metals Co 1602 S 54th Ave Cicero 50 Ill (Rods)
Plume & Atwood Mfg Co Main St Thomaston Conn
Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Riverside" (Sheet strip rod and wire)
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn (Sheet rod & wire)
Seymour Mfg Co 15 Franklin St Seymour Conn (Strips wire and rods)

**NICKEL SILVER TUBING — See Tubing, Nickel Silver**

## NOZZLES, Air

**(Blow guns for blowing dust and dirt)**

Acme Air Appliance Co 205 Newman St Hackensack N J
Aero-Motive Mfg Co 1803 Alcott St Kalamazoo 24 Mich "Zoo"
Aro Equipment Corp Bryan Ohio
Binks Mfg Co 3120 Carroll Ave Chicago 12 Ill
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Champion Pneumatic Machinery Co 825 N Pleasant St Princeton Ill
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Texas
Clements Mfg Co 6650 S Narragansett Ave Chicago Ill "Cadillac"
Diamond-U Products 8459 Dearborn Ave South Gate Calif
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Cal "Tru-Flate" (Sole distributor Tru-Flate Inc 888 92nd Ave Oakland 3 Cal)
Dutton-Lainson Co Mfg Div Hastings Neb "Golden Rod"
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo
National Machine & Tool Co 4077 Page Ave Jackson Mich
Norgren Co C A 3400 S Elati St Englewood Calif
Paasche Airbrush Co 1909 Diversey Parkway Chicago 14 Ill
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y
Romort Mfg Co Oakfield Wis
Schrader's Son Div of Scovill Mfg Co A 470 Vanderbilt Ave Brooklyn 38 N Y
Sharpe Mfg Co 1224 Wall St Los Angeles 15 Cal
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Sprayit"
Universal Lubricating Systems Inc 747 Allegheny Ave Oakmont Pa
**WEATHERHEAD CO Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind**

**NUMERICALLY CONTROLLED MACHINES —See Machines, Numerically Controlled (Automatic)**
**NUT RETAINERS—See Retainers, Nut**
**NUT WIRE—See Wire, Nut**

## NUTS

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Attwood Brass Works Inc 303 Douglas St N W Grand Rapids Mich (Cap)
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa (Wheel cap)
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"
Clark Bros Bolt Co Canal St Milldale 1 Conn
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Micro-Lok" (Front wheel spindle)
Fabri Steel Products Inc 21500 W Eight Mile Rd Detroit 19 Mich "Fast-On" (Clinch-on)
**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa**
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y (Hexagon nylon)
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Stanscrew"
Haydon Bolts Inc Adams Ave & Unity St Philadelphia 24 Pa
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill (Hexagon and square)
**NATIONAL MACHINE PRODUCTS CO 44225 Utica Rd Utica Mich "Seez-Pruf"**
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco" (Machine screw)
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Rockford Screw Products Co 2501 Ninth St Rockford Ill
**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y**
Screw & Bolt Corp of America P O Box 1708 Pittsburgh 30 Pa
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Machine screw)**
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
**TINNERMAN PRODUCTS INC 8700 Brookpark Rd Cleveland Ohio "Speed Nuts" (Spring steel)**
Triplex Screw Co 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio
United Screw & Belt Corp 3590 W 58th St Cleveland Ohio (Machine screw)
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"
Wood & Spencer Co 1930 E 61st St Cleveland 3 Ohio (Special)

## NUTS, Acorn

Fischer Special Mfg Co Morgan & Dover Sts Cincinnati Ohio "Turned"
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "GRC"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill "Hillco"
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Palnut Co 60-A Glen Rd Mountainside N J
Peerless Automatic Machine Co 1970 W 77th St Cleveland 2 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio

## NUTS, Lock and Self-Locking

**(For lock washers—See Washers, Lock)**

Allen Mfg Co Drawer 570 Hartford 1 Conn "Allenut"
Automatic Nut Corp 16th & Willow Sts Lebanon Pa "Anco"
Boots Aircraft Nut Corp Newton Turnpike Norwalk Conn "Hex-Lok" "Trilok" "Plate-Lok" "Jet-Lok" "Star-Lok" "Life-Lok" (Self-locking)

Boss Bolt & Nut Co 3403 W 47th St Chicago 32 Ill
**CARR FASTENER CO 31 Ames St Cambridge 42 Mass "V-Lock Teenut" "Dot Teenut" "Dot Push-In"**
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo "Champloc"
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Delron Co 5224 Southern Ave South Gate Calif "Dura-Loc" (Self-locking high temperature for manifolds superchargers etc)
**EATON MFG CO RELIANCE DIV 25 Charles Ave S E Massillon Ohio "Eaton-Reliance Fastite"**
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union N J "Esna" (Self-locking)
Federal Screw Works 3401 Martin St Detroit 10 Mich
General Pressed Metal Corp 926 Wolf St Syracuse 8 N Y
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
Grip Nut Co South Whitley Ind "Gripco Hi-Nut"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill "Hillco"
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill (For locking bearings on shaft)
MacLean-Fogg Lock Nut Co 5535 N Wolcott Ave Chicago 40 Ill "M-F"
**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**
**NATIONAL MACHINE PRODUCTS CO 44225 Utica Rd Utica Mich "Conelok" "Huglock" "Marsden"**
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Conelok" "Drake" "Marsden" "Huglock"**
Nylok Corp E 611 Industrial Ave Paramus N J
**PALNUT CO 60-A Glen Rd Mountainside N J (Locking)**
Prestole Corp 1351 Miami St Toledo 5 Ohio
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio "Nylok" (Licensors)**
**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y "Marsden" "Tri-Slot" (Licensees); "Tensilock" (Licensors)**
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa (Lock)
Security Locknut Corp 1800 N 15th Ave Melrose Park Ill
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin Ill "LoKuts"
South Chester Corp Southco Div 228 Industrial Highway Lester Pa
Standard Locknut & Lockwasher Co 2250 Valley Ave Indianapolis 18 Ind (For ball and roller bearings)
Standard Pressed Steel Co P O Box 395 Jenkintown Pa "Flexloc" (Self-locking)
**TINNERMAN PRODUCTS INC 8700 Brookpark Rd Cleveland Ohio "Speed Nuts" (Self locking)**
Townsend Co Engineered Fasteners Div P O Box 70 Ellwood City Pa "Nylok"
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Waldes Kohinoor Inc 47-16 Austel Pl Long Island City 1 N Y "Truarc" (Self-locking)
Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass "Tru-Lok"
Waterbury Pressed Metal Co 300 Chase Ave Waterbury Conn "P-M"
Whittet-Higgins Co P O Box 1613, Providence 1 R I (Lock for ball and roller bearings)

## NUTS, Sealing

**ROCKWELL PRODUCTS CORP 146 Central Ave Newark 3 N J "Well-Nuts"**

## NUTS, Self-Threading

**PALNUT CO 60-A Glen Rd Mountainside N J**

## NUTS, Welding

Grip Nut Co South Whitley Ind "Gripco"
MacLean-Fogg Lock Nut Co 5535 N Wolcott Ave Chicago 40 Ill
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio**
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio "Republic Midland"**

## NUTS, Wing

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel )
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Attwood Brass Works Inc 303 Douglas St NW Grand Rapids Mich
Billings & Spencer Co 1 Laurel St Hartford 1 Conn
Central Screw Co 3501 S Shields Ave Chicago 9 Ill
Clark Bros Bolt Co Canal St Milldale 1 Conn
Fischer Special Mfg Co Morgan & Dover Sts Cincinnati 6 Ohio (Aluminum and bronze)
Greer Stop Nut Co 2622 W Flournoy St Chicago 12 Ill
Gries Reproducer Corp 780 E 133rd St N Y 54 N Y
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill "Hillco"
Keystone Forging Co Northumberland Pa
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Palnut Co 60-A Glen Rd Mountainside N J
Parker-Kalon Div Great American Transportation Corp Clifton N J
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

**NYLON YARN—See Yarn, Nylon**

**ODOMETERS—See Meters or Odometers, Distance Recording**

**OIL ADDITIVES—See Additives, Oil and Lubricant**

**OIL COOLERS—See Coolers, Oil**

**OIL COOLERS, Engine—See Regulators, Temperature**

**OIL CUPS—See Cups, Oil**

**OIL FILTERS—See Filters, Oil (For Attaching to Engines); Separators, Chip; Strainers, Oil**

**OIL GAGES—See Gages, Oil Pressure; also Gages, Oil Level**

**OIL AND GREASE ABSORBENTS (Floor)—See Absorbents, Oil & Grease (Floor)**

**OIL GUNS—See Lubricators, Hand**

**OIL HOLE COVERS—See Covers, Oil Hole**

**OIL LEVEL CONTROLS—See Controls, Oil Level**

**OIL LEVEL SIGNALS—See Signals, Oil Level**

**OIL LINE TUBING—See Tubing, Oil and Gasoline Line**

**OIL PANS—See Pans, Engine**

**OIL PURIFIERS—See Filters, Oil (For Attaching to Engines)**

**OIL RECTIFIERS——See Filters, Oil (For Attaching to Engines)**

**OIL RETAINING RINGS & SEALS—See Rings & Seals, Oil & Grease Retaining; also Washers, Felt**

**OIL STRAINERS—See Strainers**

**OIL TEMPERATURE INDICATING GAGES—See Gages, Oil Temperature Indicating**

**OIL TESTING INSTRUMENTS—See Viscosimeters**

## OILERS, Sight Feed

Gits Bros Mfg Co 1846 Kilbourn Ave Chicago 23 Ill

**OILS, CUTTING — See Compounds, Cutting Fluid**

## OILS, Engine

Atlantic Refining Co 260 S Broad St Philadelphia 1 Pa
Socony-Mobile Oil Co 150 E 42nd St New York N Y "Delvac" "Mobiloil" (Sole distributors Mobil Co 150 E 42nd St N Y 17 N Y)

**OILS, HYDRAULIC—See Fluid, Hydraulic**

## OILS, Lubricating

Amalie Div L Sonneborn Sons Inc Franklin Pa
Atlantic Refining Co 260 Broad St Philadelphia 1 Pa
Champlin Oil & Refining Co Box 9365 Fort Worth Tex
Chrysler Corp Cycleweld Chemical Products Div 5437 W Jefferson St Trenton Mich
Continental Oil Co Texas National Bank Bldg 1300 Main St P O Box 2197 Houston Tex "Conoco"
D-X Sunray Oil Co Box 381 Tulsa 2 Okla
Davis-Howland Oil Corp 333 South Ave Rochester 20 N Y "DSL"
Delta Oil Products Corp 6263 N Teutonia Ave Milwaukee 9 Wis
Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J
**DOW CHEMICAL CO Midland Mich (Silicone)**
**DOW CORNING CORP Midland Mich (Silicone)**
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y "Esso Handy Oil"
Gulf Oil Corp P O Box 2140 Houston 1 Tex "Gulf" "Gulfpride" "Gulflube"
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Absorbed Oil" "Sta-Put" "Vital H D"
Imperial Oil & Grease Co 6505 Wilshire Blvd Los Angeles 48 Calif "Molub-Alloy"
International Lubricant Corp Southport Jefferson Parish La
Kerr-McGee Oil Industries Inc Kerr-McGee Bldg Oklahoma City 3 Okla
Lion Oil Co Lion Oil Bldg El Dorado Ark "Naturalube DHD"
Lubrication Engineers Inc 2807 Race St Fort Worth 11 Tex
National Refining Co Standard Bldg Cleveland 1 Ohio "Enarco"
Panef Mfg Co 116 E Walnut St Milwaukee 1 Wis
Pennsylvania Refining Co Butler Savings & Trust Bldg Butler Pa "Cruiser" "Premium Penn Drake"
Pennzoil Co of Calif 1630 W Olympic Blvd Los Angeles 15 Calif
Pennzoil Div South Penn Oil Co Drake Bldg Oil City Pa
Phillips Petroleum Co Bartlesville Okla "Condor" "Baltic Magnus" "Philube"
Quaker State Oil Refining Corp Quaker State Bldg Oil City Pa
Shaler Co Waupun Wis "Shaler Rislone"
Sinclair Refining Co 600 Fifth Ave New York 20 N Y
Standard Oil Co of California Western Operations Inc 225 Bush St San Francisco 20 Calif
**STANDARD OIL CO (Indiana) 910 S Michigan Ave Chicago 80 Ill "Atlantic" "Indoil" "Stanoil" "Stanolex" "Stanway" "Superla"**
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite"
**SUN OIL CO 1608 Walnut St Philadelphia 3 Pa "Sunoco Dynavis" "Sunoco Ocnus HD" "Sunvis" "Solnus"**
**TEXACO INC 135 E 42nd St New York 17 N Y**
Union Carbide Chemicals Co 270 Park Ave New York 17 N Y "Ucon"
Valvoline Oil Co Div of Ashland Oil & Refining Third Ave & Sixth St Freedom Pa
Wales-Strippit Inc Hydra Spring Div 242 Buell Rd Akron N Y "Wales Compr oils"
Warren Refining & Chemical Co 5151 Denison Ave Cleveland 2 Ohio "Bustrux" "Green Gold"
White & Bagley Co 100 Foster St Worcester 8 Mass "Oilzum"

**OILS, PENETRATING — See Compounds, Rust Preventing and Removing**

## OILS, Quenching

Standard Oil Co (Indiana) 910 S Michigan Ave Chicago 80 Ill "Standard" "Superla"
**TEXACO CO 135 E 42nd St N Y 17 N Y "Quenchtex"**

## OPENERS, Bus Door

Bendix Products Div Bendix Corp South Bend 20 Ind
Eberhard Mfg Co Div Eastern Malleable Iron Co 2734 Tennyson Rd Cleveland 4 Ohio (Manual)
**MIDLAND-ROSS CORP Owosso Div 490 S Chestnut St Owosso Mich (Air and electro-pneumatic)**
National Pneumatic Co 125 Amory St Boston 19 Mass "NP"
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"

## ORNAMENTS, Radiator and Hood

**(See also Monograms, Initials and Emblems, Ornamental)**

American Insulator Corp New Freedom Pa "Aico"
Fortune Mfg Co 61 E 24th St Chicago 16 Ill "Gleam" (Hood)
Gem Mfg Co 2535 South State St Chicago 16 Ill
International Mfg Co 2512 Washington St Roxbury 19 Mass "Rayline" (For Chevrolet cars)
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich

**OVEN TRUCKS—See Trucks, Oven**

## OVENS, Brake Lining Bonding

Huppert Co H K 6830 Cottage Grove Ave Chicago 37 Ill (Electric)
Lapeer Mfg Co 3056 Davison Rd Lapeer Mich

## OVENS, Core Baking

Continental Industrial Engineers Inc 2321 W Hubbard St Chicago 12 Ill
Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"
Foundry Equipment Co 1831 Columbus Rd Cleveland 13 Ohio "Coleman"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Hill & Griffith Co 1262 State St Cincinnati 4 Ohio
Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
**MAHON CO R C 6565 E S Mile Rd Detroit 34 Mich**
Ransohoff Co N 5th at Ford Blvd Hamilton Ohio
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio
Steiner-Ives Co Springfield Rd Union N J
Stevens Inc Frederic B 1800 18th St Detroit 16 Mich

## OVENS, Enameling and Lacquering

Acme Conveyor & Oven Co 31465 W 8 Mile Rd Livonia Mich "Act" (Infra-red and convection)
Binks Mfg Co 3120 Carroll Ave Chicago 12 Ill (Portable)
Blue M Electric Co 138th & Chatham Sts Blue Island Ill "Stabil-Therm" (Electric)
Burdett Mfg Co 4920 S Monitor St Chicago 38 Ill
Cincinnati Cleaning & Finishing Machinery Co 317 Hecla St Ironton Ohio
Continental Industrial Engineers Inc 2321 W Hubbard St Chicago 12 Ill
**DE VILBISS CO 300 Phillips Ave Toledo 1 Ohio**
DeVilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich
Dry Clime Lamp Corp 410 Mill St Greensburg Ind "Dry Quick"
Drying Systems Co 1826 Foster Ave Chicago 40 Ill "Dry-Sys"
Fostoria Corp N Main St Fostoria Ohio "Durabake" "Evenray" (Infra-red)
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Industrial Washing Machine Corp 32 Main St Matawan N J
Jensen Inc 9331 Freeland St Detroit 28 Mich (Infra red portable and stationary)
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind
**MAHON CO R C 6565 E S Mile Rd Detroit 34 Mich**
Rockwell Co W S 200 Eliot St Fairfield Conn
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio
Steiner-Ives Co Springfield Rd Union N J
Young Bros Co 1831 Columbus Rd Cleveland 13 Ohio

## OVENS, Molded Products

(For brake lining, armature baking, etc.)

Continental Industrial Engineers Inc 2321 W Hubbard St Chicago 12 Ill
Drying Systems Co 1826 Foster Ave Chicago 40 Ill
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
**MAHON CO R C 6565 E S Mile Rd Detroit 34 Mich**
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Steiner-Ives Co Springfield Rd Union N J
Young & Bertke Co 2212 Buck St Cincinnati 22 Ohio
Young Bros Co 1831 Columbus Rd Cleveland 13 Ohio

**OVERHEAD CONVEYORS — See Conveyors, Overhead; also Systems, Overhead Carrying**

**OVERLOAD RELAYS—See Relays, Overload (Adjustable)**

**OXYGEN GAS — See Gas, Oxygen (In Cylinders and Tanks)**

## PACKING, Asbestos

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Asbestos Textile Co 165 W Wacker Drive Chicago 1 Ill "Aztec" "Tuftex"
Atlas Asbestos Co 469 Walnut St North Wales Pa (Twisted valve stem)
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Colt's Plastics Co P O Box 507 North Grosvenordale Conn "Vulcabeston"
Crane Packing Co 6435 Oakton St Norton Grove Ill
Darcoid Co 145 Sixth Ave New York 13 N Y "Dominion" "Petrolite" "Rodtite" "Sovereign"
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Springrite"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Grafel" "Asbestopak"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron 17 Ohio
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y**
Gatke Corp 228 N LaSalle St Chicago 1 Ill
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Greene Tweed & Co North Wales Pa "Palmetto"
Johns-Manville 22 E 40th St New York 16 N Y ("Mogul"; "Service" sheet)
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Manhattan Rubber Div of Raybestos-Manhattan Inc 61 Willet St Passaic N J
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc General Asbestos & Rubber Div North Charleston S C
Raybestos-Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M" (Also rubber-asbestos)
Rhopac Inc 3425 Cleveland St Skokie Ill
Staver Co 41 N Saxon Ave Bay Shore L I N Y "Klingerit"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Vellumoid Co 54 Rockdale St Worcester 6 Mass "Velbestos"; "Wirebestos" (Wire woven)
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Asbestocork" "Asbestopac" "Asbestoprene" "Victoprene" "Corbestos" "Corpac" "Victocor"**
World Bestos Div of Firestone Tire & Rubber Co 1112 S 25th St New Castle Ind

## PACKING, Felt

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
American Felt Co 25 Glenville Rd Glenville Conn "Afco"
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Brawley Felt Co T B 272 20th St Brooklyn N Y
Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"
Continental Felt Co 22 W 15th St N Y 11 N Y "Vel-Fel"
Felters Co 219 South St Boston 11 Mass
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Rhopac Inc 3425 Cleveland St Skokie Ill
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

## PACKING, Fibrous

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Alox Mfg Co 6160 Maple Ave St Louis 14 Mo (Fibre and metal pump)
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa "Accopac" (Sheet)
**AUBURN MG CO Pease Ave & Stack St Middletown Conn "Algeo"**
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Wampus" "Sandow"
Darcoid Co 145 Sixth Ave New York 13 N Y "Kidskin"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Karropak" "Wirepak"
Fitzgerald Mfg Co 691 Main St Torrington Conn
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa "Ray Pak" (Synthetic)
**GARLOCK INC 402 Main St Palmyra N Y "Lattice Brand"**
Greene Tweed & Co North Wales Pa "Palmetto"
Johns-Manville Corp 22 E 40th St New York 16 N Y "Seigelite"
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Minnesota Mining & Mfg Co 900 Fauquirer St St Paul 6 Minn "3-M"
Mitchell & Smith Inc 9469 Copeland Ave Detroit Mich "M & S"
Raybestos - Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Vellumoid Co 54 Rockdale St Worcester 6 Mass "Velbuna" "Vellumoid" "Vellutex"
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill "Victorite" "Victolex"

## PACKING, Leather

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Burgess Leather Co A E Brigham Hill Rd Grafton Mass "Mellochrome"
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill "Chibeco" "Reliance" "Flextan"
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "Sirvis"**
**EXCELSIOR LEATHER WASHER MFG CO 720 Chestnut St Rockford Ill "X-L"**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y "Bitan"**
Graton & Knight Co 356 Franklin St Worcester 4 Mass
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Vim"
International Packing Corp Lake St Bristol N H
Krug Co North St Barnum Court Danbury Conn
Marsh Co Chas W 32 Hudson St Muskegon Mich "Marsh" "Thermo" "Air-Tight"
Rhoads & Sons J E 2100 W 11th St Wilmington 99 Del "Tannate"
Sutherland Leather & Felt Co 743 Beaubien St Detroit Mich
**TROSTEL PACKINGS LTD 800 Madison St Albert Lake Geneva Wis (Also "O" rings)**
Warren Belting Co 356 Franklin St Worcester 4 Mass

## PACKING, Metallic

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Bearium Metals Corp Mill & Commercial Sts Rochester 14 N Y
Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane"
Darcoid Co 145 Sixth Ave N Y 13 N Y
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y "Garlock Chevron"**
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Raybestos-Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Steel-Bronze Sealing Rings Co 540 S Meridian St Indianapolis 25 Ind
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

**PACKING, PAPER—See Gaskets, Paper**

## PACKING, Plastic

Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa (O rings)
Tri-Point Plastics Inc 175 I W Willets Rd Albertson L I N Y (Teflon O-rings)

## PACKING, Plastic Metallic

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
**GARLOCK INC 402 Main St Palmyra N Y**
Greene Tweed & Co North Wales Pa "Palmetto"
Raybestos - Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Raybestos - Manhattan Inc Plastic Products Div Manheim Pa "R/M" (Also O-rings)

## PACKING, Rubber

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa

Anchor Packing Co 401 N Broad St Philadelphia 8 Pa
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa "Armstrong's"
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich
Bowling Green Rubber Corp 4143 Monroe St Toledo 13 Ohio
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn (O rings)
Chambers Gasket & Mfg Co 4701 W Rice St Chicago 51 Ill "Super-Rubber"
Chesterton Co A W 64 India St Boston Mass
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio "Norka"
Cleveland Gasket & Mfg Co 1610 W 116th St Cleveland 2 Ohio
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Cohrlastic" (Silicone)
Continental Rubber Works 1946 Liberty St Erie Pa
Cooper Mfg Co 411 S First Ave Marshalltown Iowa
Cooper Tire & Rubber Co Lima & Western Ave Findlay Ohio
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Cranz Co J M 2671 Main St Buffalo 14 N Y
Darcoid Co 145 Sixth Ave New York 13 N Y "Dominion"
Farnam Co F D 4940 Flournoy St Chicago 44 Ill
Fitzgerald Mfg Co 691 Main St Torrington Conn
**GARLOCK INC 402 Main St Palmyra N Y "Garlock Chevron"**
Gasket Engrg Co 3125 Wyandotte St Kansas City 11 Mo
Gasket Shop 231 Ritch St San Francisco Calif "Korkpak"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
**GOSHEN RUBBER CO 609 E Iowa St Goshen Ind (O rings gaskets etc)**
Greene Tweed & Co North Wales Pa "Palmetto"
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Johnson Rubber Co Middlefield Ohio
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Linear Inc State Rd & Levick St Philadelphia 35 Pa
Mechanical Rubber Product Co Warwick N Y
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mercer Rubber Co Hamilton Square N J
Minnesota Rubber & Gasket Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn (O rings)
Parker Seal Co 10567 Jefferson Blvd Culver City Calif (O rings)
Raybestos - Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Rhopac Inc 3425 Cleveland St Skokie Ill
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rubatex Div Great American Industries Inc Bedford Va
**STALWART RUBBER CO 222 Northfield Rd Bedford Ohio**
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Stillman Rubber Co 5811 Marilyn Ave Culver City Calif
United Packing & Gasket Engrg Corp 5111 Ogden Ave Cicero 50 Ill
United States Rubber Co Rockefeller Center Ave of the Americas New York 20 N Y
Wisconsin Gasket & Manufacturing Co 8724 N Granville Rd Granville Wis

## PACKING, Rubber (Synthetic)

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill ("Gaskofelt"; "Westfeltopak" Synthetic rubber coated)
Acushnet Process Co Rubber Div 754 Belleview Ave (Box 916) New Bedford Mass
Arrowhead Products Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit Mich (O rings)
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn (Silicone)
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa (O rings)
**GARLOCK INC 402 Main St Palmyra N Y**
**GOSHEN RUBBER CO 609 E Iowa St Goshen Ind (Synthetic and silicone O-rings)**
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa "Vix-Syn" (O rings etc)
International Packing Corp Lake St Bristol N H
Johnson Rubber Co 111 Vine St Middlefield Ohio
Linear Inc State Rd & Levick St Philadelphia 35 Pa (O-rings)
Mechanical Rubber Products Co Warwick N Y
Minnesota Rubber Co 3060 Woodale Ave St Louis Park Minneapolis 16 Minn "Quad-Ring" (O-rings; "Quad-Bak" "Quad-Lip" "Quad-Bon" "Quad-Kup" "Quad-Wip")
**NATIONAL SEAL DIV FEDERAL-MOGUL-BOWER BEARINGS INC Broadway at National Ave Redwood City Calif (Silicone O-rings)**
Parker Seal Co 10567 Jefferson Blvd Culver City Calif (O-rings)
Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif "Parco" (O-rings)
Precision Rubber Products Corp 3110 Oakridge Drive Dayton 7 Ohio (O-rings)
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos - Manhattan Inc Packing Div 61 Willet St Passaic N J "R/M"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
United States Rubber Co Rockefeller Center Ave of thte Americas New York 20 N Y
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill "Victoprene" (O rings)
Warren Belting Co 356 Franklin St Worcester 4 Mass

## PADS, Body Foundation

(See also Pads, Protection [For Body Use])

American Felt Co 25 Glenville Rd Glenville Conn
Barley-Earhart Corp Portland Mich
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Burkart Mfg Co F 4900 N Second St St Louis 7 Mo (Sisal)
Burton-Dixie Corp 2024 S Racine Ave Chicago 8 Ill (Sisal latex and cotton)
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee Gee"**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Felters Co 210 South St Boston 11 Mass
Latex Fiber Industries Inc Beaver Falls N L "Lexide" "Laflex"
Rhopac Inc 3425 Cleveland St Skokie Ill
Standard Cotton Products Co Camden at Ossington St Flint Mich (Sole distributors Automotive Materials Corp Fisher Bldg Detroit Mich)
Western Felt Works 4115 W Ogden Ave Chicago 23 Ill

**PADS, FELT, ANTI-SQUEAK — See Lining, Body or Frame**

## PADS, Floor (Felt, Jute, etc.)

American Hair & Felt Co 322 Merchandise Mart Chicago 54 Ill (Felt and jute)
Armour Alliance Industries 16123 Armour St N E Alliance Ohio "Supreme Hairflex" (Luggage deck)
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y (Felt)
Brawley Felt Co T R 272 20th St Brooklyn N Y
Burlington Mills Inc Burlington Wis
Clark - Cutler - McDermott Co Fisher St Franklin Mass
Dixie Jute Bagging Co 700 Front St Norfolk 10 Va (Jute)
Felters Co 210 South St Boston 11 Mass (Felt)
Standard Cotton Products Co Camden at Ossington St Flint Mich (Sole distributors Automotive Materials Corp Fisher Bldg Detroit Mich)

## PADS, Insulation (Heat, Cold and Sound)

American Hair & Felt Co 322 Merchandise Mart Chicago 54 Ill
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Burlington Mills Inc Burlington Wis
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Felters Co 210 South St Boston 11 Mass
Johns-Manville Sales Corp Industrial Insulation Div 22 E 40th St N Y N Y "Microlite" "Microfine"
Nafi Corp 527 23rd Ave Oakland 6 Calif (Cotton and jute)
Ruberoid Co 500 Fifth Ave N Y 36 N Y (Dash)
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich (Dash panel)

## PADS, Pedal

(For applying to clutch or brake pedals to prevent feet from slipping)

Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex"
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Kastar Inc 200 Lincoln Ave New York 54 N Y
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill (Brake and clutch)
Loock & Co R J 343 N Gay St Baltimore Md
Monarch Rubber Co Hartville Ohio
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Ped-A-Mat"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Visionade Mfg Co 200 Kosciusko St Brooklyn 16 N Y "Foot's Ease"

## PADS, Protection (For Body Use)

(Top pads, spring pads, etc)

American Hair & Felt Co 322 Merchandise Mart Chicago 54 Ill
Burkart Mfg Co F 4900 N Second St St Louis 7 Mo (Sisal tula and cotton)
Dry Zero Corp Merchandise Mart Chicago Ill
Western Felt Works 4115 W Ogden Ave Chicago 23 Ill "Westfelt"

## PADS, Seat

Allison's Co 1015 Jefferson Ave Brooklyn 21 N Y (Bamboo)
Banner Mfg Co 37 Preston Court Brooklyn 34 N Y
Bonded Foam Latex Inc 4501 Perkins Ave Cleveland 4 Ohio "Velv-O-Tex" "Kool Vent" (Ventilated wire)
Bostrom Corp 1333 W Oregon St Milwaukee 4 Wis
Burkart Mfg Co F 4900 N Second St St Louis 7 Mo (Sisal tula and cotton)
Chicago Curled Hair Co 2301 S Paulina St Chicago 8 Ill "Sanaflex"
Crawford Mfg Co Third & Decatur Sts Richmond 12 Va (Aircooled)
Egan Mfg Co HB P O Box 1406 Muskogee Okla "Camel Coolie' (Coiled spring)
Ero Mfg Co 714 W Monroe St Chicago 6 Ill
Farber Bros Inc 821 Linden Ave Memphis 3 Tenn "Fabco" (Air cooled spring)
Firestone Rubber & Latex Products Co Fall River Mass (Foam latex)
Fulmer Arthur 260 Monroe Ave Memphis 1 Tenn (Coil spring)
Goodrich Sponge Products B F Howe Ave Shelton Conn "Texfoam"
Gordon Chapman Co 1720 12th St Detroit 16 Mich "Elasto"
Hinson Mfg Co Westfield Ave & Menges St Waterloo Iowa (Fibre also coiled spring wire)
Kent Corp R O New York 1 N Y "Kent Ventilaire" (Ventilated wire)
Kool Kooshion Mfg Co Dyersburg Tenn (Ventilated)
Master Mfg Co 426 Luckie St N W Atlanta 1 Ga (Spring coils)
Mitchell Mfg Co 1601 Ballman St Ft Smith Ark (Ventilated)
Reynolds Mfg Co 1419 Alamo National Bldg San Antonio 5 Tex "Remco" (Water cooled)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Zink Corp Howard Jackson & Napoleon Sts Fremont Ohio (Spring)

**PAINT ARRESTORS (SPRAY BOOTH)—See Filters, Air (Paint Spray Booth)**

**PAINT HEATERS—See Heaters, Paint (Hot Spray)**

**PAINT, MASKING—See Compounds, Masking**
**PAINT MIXERS—See Agitators, Paint**
**PAINT SPRAYERS—See Sprayers, Paint, Varnish and Lacquer**
**PAINTING MACHINES—See Machines, Painting**

## PAINTS, Acid-Resisting

Frost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frost's Kapak"
Markal Co 3052 W Carroll Ave Chicago 12 Ill
Quigley Co 415 Madison Ave N Y 17 N Y "Triple-A"
Sherwin-Williams So 101 Prospect Ave N W Cleveland 1 Ohio
Stonhard Co 401 N Broad Philadelphia 8 Pa
Vita-Var Corp 46 Albert Ave Newark N J "Vita-Lux"

## PAINTS, Alkali Resisting

Markal Co 3052 W Carroll Ave Chicago 12 Ill
Quigley Co 415 Madison Ave N Y 17 N Y "Triple-A"
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio
Vita-Var Corp 46 Albert Ave Newark N J

## PAINTS, Aluminum and Bronze

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa Albron" (Pigments for aluminum paint)
Arco Co 7301 Bessemer Ave Cleveland 27 Ohio
Battenfield Grease & Oil Corp 3148 Roanoke Rd Kansas City 8 Okla (Aluminum)
Forbes Finishes Div Pittsburgh Plate Glass Co 2800 W 148th St Cleveland 11 Ohio (Aluminum)
Frost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frospar" (Aluminum)
Illinois Bronze Powder Co 2015 S Clark St Chicago 16 Ill "Illbronze"
Interstate Enamel & Varnish Co 323 W 15th St Indianapolis Ind "Realcoat"
Plastic-Kote Inc 9801 Harvard Rd NW Cleveland 5 Ohio (Aluminum)
Reynolds Metals Co 6601 Broad St Richmond 19 Va (Aluminum pigment powders and pastes)
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio "Auto Chrome" "Super Krome" (Aluminum)
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio

**PAINTS, COLOR—See Colors (Paint, Pigment)**

## PAINTS, Fluorescent (Instrument Dial)

Lawter Chemicals Inc 3550 Touhy Ave Chicago 45 Ill

## PAINTS, Graphite

Dixon Crucible Co Joseph Monmouth & Wayne Sts Jersey City 3 N J "Silica-Graphite"
Superior Graphite Co 1531 First National Bank Bldg Chicago 3 Ill "Superflake"
Vita-Var Corp 46 Albert Ave Newark N J "Vita-Var"

## PAINTS, Heat Resisting

Frost Paint & Oil Corp 1209 Tyler St N E Minneapolis 13 Minn "Frost's Kapak"
Horn Co A C Products Finishes Div 10th St & 44th Ave Long Island City 1 N Y
Markal Co 3052 W Carroll Ave Chicago 12 Ill
Service Industries 2103 E Somerset St Philadelphia 34 Pa "Ferno"
Sheffield Bronze Paint Corp 17814 Waterloo Rd Cleveland 19 Ohio "Red Hot" (Alumninum)
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio
Speco Inc 7308 Associate Ave Cleveland 9 O "Heat-Rem"
Vita-Var Corp 46 Albert Ave Newark N J "Thermokote"

## PAINTS, Rubber

Akron Paint & Varnish Co 1390 Firestone Parkway Akron 1 Ohio (Tire)
Better Monkey Grip Co 5320 Harry Hines Blvd Dallas 22 Tex "Monkey Grip" (Tire sole distributors Monkey Grip Sales Co 5320 Harry Hines Blvd Dallas 22 Tex)
Bowes "Seal Fast" Corp 5902 E 34th St Indianapolis 18 Ind (Tire)
Century Products Co 14324 Birwood St Detroit 4 Mich
Cooper Corp Lima & Western Aves Findlay Ohio
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn (White and black for tires)
Foundry Rubber Inc 1050 30th St NW Washington 7 D C "Paracrete"
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio (Tire)
Hollingshead Corp R M 840 Cooper St Camden N J (Black and white for tires)
Kelly-Springfield Tire Co Cumberland Md (Tire)
Lee Rubber & Tire Corp Conshohocken Pa
Master Automotive Chemicals Inc 37 Preston Ct Brooklyn 34 N Y "Color-Cote" (Black or white for tires)
Miller Tires A Div of B F Goodrich Co 500 S Main St Akron Ohio (Tire)
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko" (For tires)
Patch Rubber Co 884 W Waterloo Rd Akron Ohio
Permatex Co Sheepshead Bay N Y
Ruscoe Co W J 483 Kenmore Blvd Akron 1 Ohio "Flexcote" (Black tire "Ruscote" colored tire)
Steelcote Mfg Co 3418 Gratiot Ave St Louis 3 Mo
Tumbler Laboratories J A 423 S Hanover St Baltimore 1 Md (Tire)

## PAINTS, Storage Battery Terminal

Mitchell-Rand Mfg Corp 51 Murray St New York N Y "E B" "2098"

## PANELS, Fibre

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa
Latex Fiber Industries Inc Beaver Falls N Y "Lexide" (Rubber bonded)
Seaman Products Div of Seaman Paper Co 1236 Sherman Ave Evanston Ill
Textileather Corp 607 Madison Ave Toledo 3 Ohio (Coated and embossed)
Upson Co Stevens St Lockport N Y (Embossed)
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich (Embossed and coated)

## PANELS, Fiber-Glass

**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Body for sport cars)**

## PANELS, Instrument

American Name Plate & Mfg Co 4254 W Arthington St Chicago 24 Ill "Anco"
Bristol Co Waterbury 20 Conn
Champion Sheet Metal Co 2 Squires St Cortland N Y (To order)
Croname Inc 6217 Howard St Chicago 43 Ill "CroArt"
Cutler Metal Products Co 1025 Line St Camden N J
Dahlstrom Metallic Door Co Special Products Div 429 Buffalo St Jamestown N Y
Electric Autolite Co Bay Mfg Div Bay City Mich
Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y
Fox Co 3400 Beekman St Cincinnati 23 Ohio
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Miller Dial & Name Plate Co 4400 N Temple City Blvd El Monte Calif (Glo-escent lighting)
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiber glass reinforced)**
Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis
Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
York Corrugating Co Adams St & W Md RR York Pa (Truck)

## PANELS, Instrument (With Instruments Assembled)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**
**KING-SEELEY DIV KING-SEELEY CORP 315 S First St Ann Arbor Mich "K-S Telegage"**
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Underwriters Safety Device Co 4642 N Lamon St Chicago 30 Ill

## PANELS, Metal

Anzick Mfg Co 23675 Mound Rd Van Dyke Mich "Detroiter" (Auto body door)
Cutler Metal Products Co 1025 Line St Camden N J
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Dee-Gee"
GorDag Industries Inc 803 Forshay Tower Minneapolis 2 Minn
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B" (Body)
Oatey Co L R 4700 W 160th St Cleveland 35 Ohio "Slip-On"
Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio (Body for trucks buses and fire engines)
Wayne Foundry & Stamping Co 3100 Hubbard Ave Detroit 10 Mich
York Corrugating Co Adams St & W Md R R York Pa (Door and roof for trucks)

## PANELS, Plywood

**EVANS PRODUCTS CO 13101 Eckles Rd Plymouth Mich (Fir)**
Harbor Plywood Corp Box 940 Aberdeen Wash "Harbord" "Harborite" "Super-Harbord" "Royal Harborite" (Douglas fir)
Haskelite Mfg Div Evans Products Co 701 Ann St NW Grand Rapids 2 Mich "Hasko-Preg" (Die model laminated "Haskelite" plastic-faced "Plymetl" metal-faced)
Met-L-Wood Corp 6755 W 65th St Chicago 38 Ill (Metal covered)
United States Plywood Corp Weldwood Bldg 55 W 44th St New York 36 N Y ("Duraply" "Permaply" "Weldwood" "Armorply" faced with steel and other metal "Tekwood"faced with kraft paper "Flexwood" wood veneer mounted on cloth)

## PANELS, Upholstered

Fabricon Products Div of Eagle-Picher Co 1721 Pleasant Ave River Rouge 18 Mich

## PANELS, Wire, for Bodies

Buffalo Wire Works Co 506 Terrace Buffalo 2 N Y
Logan Co Cabel St Louisville 6 Ky

## PANELS, Wood

Cornell Paperboard Products Co 20 N Wacker Dr Chicago 6 Ill (Wood fibre)

## PANELS and SWITCHBOARDS, Battery Charging

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Hertner Electric Co 12690 Elmwood Ave Cleveland 11 Ohio
Square D Co Executive Plaza Park Ridge Ill

## PANS, Drip

**(For placing under machinery)**
Columbian Steel Tank Co 1409 W 12th St Kansas City 7 Mo
Cutler Metal Products Co 1025 Line St Camden N J
Dover Stamping Co 80 Federal St Boston Mass
Durlach Can & Iron Works 325 Spring St N Y N Y
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Salem Tool Co 767 S Ellsworth Ave Salem Ohio
United States Steel Products Div United States Steel Corp 5100 Santa Fe Ave Los Angeles 58 Calif "USS"

## PANS, Engine

Ansted Corp 1428 W Henry St Indianapolis 7 Ind
Cutler Metal Products Co 1029 Line St Camden N J
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Salem Tool Co 767 S Ellsworth Ave Salem Ohio

## PANS, Storage, for Metal Parts

Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa "BFC"
Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Lyon Metal Products Inc 604 Monroe Ave Aurora Ill
Salem Tool Co 767 S Ellsworth Ave Salem Ohio

**PANS, TOTE—See Boxes, Tote**
**PANTOGRAPH MACHINE—See Machines, Pantograph**

## PAPER, Abrasive

**(See also Cloth, Abrasive)**
Behr-Manning Corp 6118 Howe St Troy N Y "Speed-Wet" "Adalox" "Bear" "Durite" "NoFil" "Resinized" "Tufbak" (Also emery flint and garnet paper)
Carborundum Co Buffalo Ave Niagara Falls N Y "Carborundum" "Aloxite"
Clover Mfg Co 327 Main St Norwalk Conn "Clover" "Clovalox" "Color-Stripe"

Dixon Inc William 32-42 E Kinney St Newark 1 N J
Mid-West Abrasive Co 510 S Washington St Owosso Mich
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "Crystal Bay" "3M" "Minnesota" "Tri-M-Ite"
Permacel U S Highway No 1 New Brunswick N J
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill "Colossus"

## PAPER, Insulating

Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del
Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
Franklin Fibre-Lamitex Corp 195 E 12th St Wilmington Del
Irvington Varnish & Insulator Div of Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N J
Merrimac Paper Co 295 Madison Ave New York 17 N Y
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Peerless"
Taylor Fibre Co Norristown 49 Pa
Wilmington Fibre Specialty Co New Castle Del "Fyberoid"

**PARTS, AIRCRAFT—See Blades, Aircraft; Bolts, Aircraft; Castings, Aircraft; Heaters, Aircraft; Motors, Electric [Aircraft Use]**

## PARTS, Air Conditioning Unit (Auto)

Ansul Chemical Co Fire Extinguisher Div Marinette Wis (Receiver-driers, moisture indicators)
**CONTROLS CO OF AMERICA Heating & Air Conditioning Div 2450 N 32nd St Milwaukee 25 Wis "A-P" (Valves filters driers-receivers distributors and pressure regulators)**
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind (Bypass valves)
Detroit Controls Div American Standard Corp 5900 Trumbull Ave Detroit 8 Mich (Valves drivers and sight glasses)
General Controls Co 801 Allen Ave Glendale 1 Calif (Valves)
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich (Evaporators and condensers)
Ranco Inc 601 W Fifth Ave Columbus 1 Ohio (Thermostats)
**ROTARY SEAL DIV MUSKEGON PISTON RING CO Gardner St Sparta Mich (Mechanical shaft seals for compressors)**
Tenney Engrg Inc 1090 Springfield Rd Union N J (Evaporators and condensers)
Tube Manifold Corp 415 Bryant St North Tonawanda N Y (Receivers and dryers)
Warner Electric Brake & Clutch Co Beloit Wis (Compressor clutches)
**WEATHERHEAD CO FORT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**

## PARTS, Auto Body (Plastic)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 (Panels)
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiberglass body panels hoods doors instrument panels roof panels etc)**

## PARTS, Auto Body (Steel)

BEW 3055 E 12th St Los Angeles 23 Calif (Fender skirts)
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich (Fender skirts)
Schott Metal Products Co 2225 Lee Rd Akron 6 Ohio (Panels)

## PARTS, Automotive Precision

Perfection Gear Co 152 St & Vincennes Ave Harvey Ill

## PARTS, Brake

**(See also Valves, Air Brake)**

Aero Mfg & Machining Co 2724 Ninth Ave Muskegon Heights Mich (Hydraulic)
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Pistons)
Anderson Co O L 12400 Burt Rd Detroit 28 Mich (Vacuum tanks for power brakes)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Bendix Products Div Bendix Aviation Corp South Bend 20 Ind "B-K" (Hand control valves for vacuum braking)
Bendix Westinghouse Automotive Air Brake Co 901 Cleveland Road Elyria Ohio (Air conversion kits)
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill "Airo-Mech" "Piggy-Mech" (For trucks buses and trailers)
Brown Corp 213 Bellevue Ave Syracuse N Y
Chilton Metal Products Inc 300 Breed St Chilton Wis (Tanks for power brakes)
Delco Moraine Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio (Wheel and master cylinders)
Eaton Mfg Co Marion Forge Div Route 95 W Marion Ohio
Eis Automotive Corp Box 701 Middletown Conn (Hydraulic mechanical power master and wheel cylinders also assortments of small parts)
Fawick Brake Div Fawick Corp 9921 Clinton Rd Cleveland 11 Ohio "Fawick- Girling" (Master and slave cylinders)
General Tire & Rubber Co Industrial Products Div Wabash Ind (Hydraulic)
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Hydraulic)
Globe Rubber Products Corp 3333 N Lawence St Philadelphia 40 Pa (Hydraulic)
Goshen Rubber Co 609 E Iowa St Goshen Ind (Hydraulic cups and boots)
Hoppenstand Motors Inc Pearl & Elk Sts Albion Pa (Air chambers for trucks and trailers)
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Bull Dog" (For Ford and Chevrolet cars)
Judson Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill (Hydraulic rubber)
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich (Vacuum power brake valves and chambers)
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill (Hydraulic)
Lisle Corp Brake Div 805 E Main St Clarinda Iowa (Master and wheel cylinders)
Loock & Co R J 343 N Gay St Baltimore Md (Cylinder cups)
Master Parts Div Airtex Products Inc Fairfield Ill (Hydraulic master and wheel cylinders)
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich (Air conversion valve kits)
Minnesota Automotive Inc 1101 N Front St Mankato Minn "Mico" (Master cylinders)
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Pilot" (Hydraulic master wheel cylinder assemblies)
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamacia 18 N Y "Nimco" (Hydraulic)
Neff-Perkins Co 33 Stage Ave Painesville Ohio (Air brake seals)
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill (Hydraulic)
Otto Items Inc 1200 Reco Ave Kirkwood 22 Mo "Tru-Torque" (Hydraulic cups etc)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid" (Diaphragms)
Power Brake Equipment Co 1632 S E 11th Ave Portland 14 Ore "Williams"
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y "Coni-Seal" (Hydraulic cups)
United Metal Craft Co 800 Lowell St Ypsilanti Mich (Power brake tanks)
United Parts Mfg Div Echlin Mfg Co 1250 W Van Buren St Chicago 7 Ill (Hydraulic parts and cylinder assemblies)
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif (Wheel cylinders and cup expanders)
Vari-Products Co 2450 S Prairie Ave Chicago 16 Ill (Vacuum tanks)
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis (Vacuum power and air for trucks and trailers also air conversion kits)
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo "Lockheed" (Master and wheel cylinders)**
**WEATHERHEAD CO FT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind (Air and hydraulic)**
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Hydraulic)

## PARTS, Bus Body (Steel)

Bath Co Cyril 32400 Aurora Rd Solon Ohio (Roof rails and bows body posts door frames wheelhouse angles etc)
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"

## PARTS, Carburetor

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind
Brisko's Mileage-Saver Inc Box 38 Ojibwa Wis (Automatic choke heater)
Carter Carburetor Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo (Automatic choke heat unit)
Circle Z R F D #2 Pomfret Center Conn
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich
Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd Long Island City 1 N Y
Neff-Perkins Co 33 Stage Ave Painesville Ohio (Diaphragms)
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Parts Mfg Co 211 W 61st St New York 23 N Y "Parco"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y (Dashpot assemblies)
Precision Automotive Components Co Manchester & Henry Sts Manchester Mo "Pacco"
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Simmons Mfg Co Ashland Ohio
V-J Industries Inc 135 N Spring St Indianapolis 2 Ind

**PARTS, CAST PHENOLIC — See Plastics — Cast (Phenolic and Resin)**

## PARTS, Clutch

**(See also Bearings, Clutch Throwout; Controls Clutch (Power Operated); Corks, Brake & Clutch Insert; Discs, Clutch; Lining, Brake; Plates, Clutch Pressure; also Shafts, Transmission & Clutch)**

Accurate Re-Nu Clutch Div of MarPro Inc 168 N Michigan Ave Chicago 1 Ill (Pressure assembly component parts)
Circle Z R F D #2 Pomfret Center Conn
Elgin Machine Works Inc 412 N State St Elgin Ill
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Lipe-Rollway Corp 806 Emerson Ave Syracuse 1 N Y
Parts Mfg Co 211 W 61st St New York 23 NY "Parco"
Perfect Gear Co 152nd St & Vincennes Ave Harvey Ill (Clutch cover assembly parts)
Rockford Clutch Div Borg-Warner Corp 1319 18th Ave Rockford Ill (Levers)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## PARTS, Fibre

Auburn Mfg Co Pease Ave & Stack St Middletown Ohio
Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del
Continental-Diamond Fibre Corp Newark 2 Del "Diamond"
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del
Hill Nut Co 2620 W Flournoy Ave Chicago 12 Ill
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del
Spauling Fibre Co 310 Wheeler St Tonawanda N Y
Taylor Fibre Co Norristown 49 Pa
Wilmington Fibre Specialty Co New Castle Del

## PARTS, Filter (Auto)

Melvina Can Machinery Co 52-24 57th Drive Maspeth L I N Y (Air and oil filter bodies and filter tubes)

## PARTS, Front End Suspension

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Brown Corp 213 Bellevue Ave Syracuse N Y
Elgin Machine Works 412 N State St Elgin Ill
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio (Ball joints)
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis 10 Mo
Master Parts Div Airtex Products Inc Fairfield Ill
Moog Industries 6565 Wells Ave St Louis 33 Mo
Neapco Products Inc South & Cross Sts Pottstown Pa
Parts Mfg Co 211 W 61st St New York 23 N Y "Parco"
Republic Engrg & Mfg Co 6565 Wells Ave St. Louis 14 Mo "Remco"
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich

## PARTS, Front End Suspension—continued

Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## PARTS, Fuel Pump

Airtex Automotive Div Airtex Products Inc Fairfield Ill
Alloy Mfg Co 3202 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality First" (Push rods etc)
American Motor Products Co Fond du Lac Wis "Ampco"
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander" (Push rods)
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Master Parts Div Airtex Products Inc Fairfield Ill
Neff-Perkins Co 33 Stage Ave Painesville Ohio (Diaphragms)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y (Diaphragms etc)
Reeves Bros Inc Vulcan Rubber Products Div 1071 Ave of The Americas New York 18 N Y "Vulcan" (Diaphragms)
Simmons Mfg Co Ashland Ohio (For Ford Chevrolet and Plymouth cars)
United Parts Mfg Div Echlin Mfg Co 1250 W Van Buren St Chicago Ill "Uniflex"
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich (Rods)

## PARTS, Generator

Consolidated General Products Inc 2401 Nicholson St Houston 8 Tex "Gen-O-Drive" (Overdrives)
Holley Carburetor Co 11955 E Nine Mile Ro Warren Mich
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
V-J Industries Inc 720 E Washington St Indianapolis Ind
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

## PARTS, Hardened and Ground

Accurate Bushing Co 443 North Ave Garwood N J
**AETNA BALL & ROLLER BEARING CO 4600 Schubert Ave Chicago 39 Ill**
Brown Corp 213 Bellevue Ave Syracuse N Y
Burgess-Norton Mfg Co 737 Peyton St Geneva Ill
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Jig Bushing Co 454 Cass Ave (P O Box 116) Pontiac Mich (Cylindrical)
Orange Roller Bearing Co 557 Main St Orange N J
Thomson Industries Inc 1029 Paindone Rd Manhasset N Y "60 Case" (Shafts)
Trayer Products Inc E Clinton St Elmira N Y
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio

## PARTS, Jet Engine

**KOHLER CO Kohler Wis**

**PARTS, LAMINATED (PHENOLIC) — See Plastics, Laminated**

## PARTS, Magneto, Coil and Distributor

American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J
American Motor Products Co Fond du Lac Wis "Ampco" (Distributor rotors)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind (Breaker plates)
Echlin Mfg Co U S Route 1 Branford Conn (Distributor coils and rotors)
Electric Autolite Co Toledo 1 Ohio (Distributor caps and rotors)
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Distributor rotors)
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y (Nylon distributor parts)
Guaranteed Parts Co Seneca Falls N Y "GP"
**HOLLEY CARBURETOR CO 11955 E 9 Mile Rd Warren Mich (Caps and rotors)**
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J (Coil and distributor)
Keystone Carbon Co 1935 State St St Marys Pa
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif (Distributor caps and rotors)
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco" (Coil and distributor)
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Distributor plates etc sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco"
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich (Distributor caps and nipples)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Shurhit Products Inc 845 S Market St Waukegan Ill (Distributor caps and rotors)
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y (Distributor heads and rotors)
Specialty Insulation Mfg Co Hoosick Falls N Y (Distributor caps)
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Tungsten Contact Mfg Co 7511 Cottage Ave North Bergen N J (Caps and rotors)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y (Distributor caps and rotors)
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis (Distributor caps and rotors)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Distributor caps and rotors)
Wico Ignition Div Globe-Union Inc West Springfield Mass

## PARTS, Metallic Powder

**(For suppliers of powdered metal—See Metals, Powdered)**

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "APMP"
American Brakeblok Div American Brake Shoe Co 900 W Maple Rd Birmingham Mich "Sintermet" (Friction material)
American Platinum & Silver Div Englehard Industries Inc 231 N J R R Ave Newark 5 N J
American Powdered Metals Inc 7 Philip Pl North Haven Conn "Powdermet"
**AMPLEX DIV CHRYSLER CORP P O Box 2718 Detroit 31 Mich (Machine parts filter friction material gears cams rotors etc)**
Bound Brook Oil-Less Bearing Co Lincoln Blvd Bound Brook N J "Powdiron" "Compo" (Powdered iron bearings parts etc)
Bunting Brass & Bronze Co 715 Spencer St Toledo 9 Ohio (Bearings and parts)
Burgess - Norton Mfg Co 737 Peyton St Geneva Ill "Quali-Sint"
**DELCO MORAINE DIV GENERAL MOTORS CORP 1420 Wisconsin Blvd Dayton Ohio**
Detroit Sintered Metals Corp 715 Spencer St Toledo 1 Ohio
Dixon Sintaloy Inc 535 Hope St Stamford Conn "Sintaloy" (Bearings gears filters contacts etc)
**EATON MFG CO POWDERED METALS DIV 325 Jay St Coldwater Mich**
Haller Inc 16580 Northville Rd Northville Mich
International Powder Metallurgy Co 439 W Main St Ridgway Pa (Bronze iron brass and steel)
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Johnson Bronze Co 310 S Mill St New Castle Pa "Ledayoyl" (Bearings bushings etc)
Keystone Carbon Co 1935 State St St Marys Pa "Selflube" (Bushings)
**MALLORY & CO P R 76 S Gray St Indianapolis Ind**
Marshall-Eclipse Div of Bendix Corp Box 538 Troy N Y "Cerametalix" (For clutches and brakes)
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
Mueller Brass Co Sintered Products Div 1925 Lapeer Ave Port Huron Mich
National Molded Products Inc 40 S St Marys St St Marys Pa (Filters and metallic friction materials)
Parker White-Metal Co 22rd St & Pennsylvania Ave Erie Pa
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales Div PO Box 102 Bridgeport Conn "R/M"
Raybestos Manhattan Inc Wabash Div Crawfordsville Ind
Rocky Mountain Metals Inc 3200 Century Ave Colorado Springs Colo (Bearings cams gears levers shock absorbers and front end suspension units)
Sintered Metals Inc 3391 Washington St Jamaica 30 Mass
Sparta Foundry Co Div of Muskegon Piston Ring Co Sparta Mich (Iron)
Stackpole Carbon Co Stackpole St St Marys Pa
United States Graphite Co 1621 Holland Ave Saginaw Mich (Bearings bushings and washers)
Wakefield Bearing Corp 29 Foundry St Wakefield Msas
Wellman Co S K 200 Egbert Rd Bedford Ohio

**PARTS, MOLDED (PHENOLIC)—See Plastics—Molded (Phenolic Urea Cellulose Acetate Polystyrene etc)**

## PARTS, Muffler (Auto)

Melvina Can Machinery Co 52-24 57th Drive Maspeth L I N Y

## PARTS, Power Steering

**(See also Pumps Hydraulic)**

Aero Mfg & Machining Co 2724 Ninth St Muskegon Heights Mich
Brown Corp 213 Bellevue Ave Syracuse N Y
Char-Lynn Co 2843 26th Ave S Minneapolis 6 Minn (Pumps)
Chilton Metal Products Inc 300 Breed St Chilton Wis (Tanks)
**FLEXONICS CORP AUTOMOTIVE DIV 2021 S Latham St Memphis Tenn (Hose assemblies)**
**GARRISON MFG CO 4609 E Shelin St East Los Angeles 22 Calif (Valves and cylinders)**
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill (Hose assemblies)
Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich (Tubes)
New Products Corp 3636 Oakton St Skokie Ill (Valves)
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
**PUROLATOR PRODUCTS INC 970 New Brunswick Ave Rahway N J (Combination reservoir and filter for trucks)**
**SEALED POWER CORP 2001 Sandford St Muskegon Heights Mich**
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Cylinders and pumps)
Vickers Inc Administrative & Engrg Center Detroit 32 Mich (Valves)
**WEATHERHEAD CO FT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**

**PARTS, PRESSED STEEL—See Stampings, Metal**

## PARTS, Refrigeration System (Truck and Trailer)

Dole Refrigerating Co 5962 N Pulaski Rd Chicago 46 Ill "Cold-Cel" (Plates "Lecktro-Cel" generators "Truk-Cel" blower units)
Kold-Hold Div of Tranter Mfg Inc 620 E Hazel St Lansing 4 Mich "Crest" (Truck condensing unit)
Sundstrand Hydraulics Div of Sundstrand Corp 2210 Harrison Ave Rockford Ill (Constant speed drives for trucks)

## PARTS, Shock Absorber

Champ-Items Inc 6191 Maple Ave St Louis 14 Mo (Springs)
Parts Mfg Co 211 W 61st St N Y 23 N Y
Van Berger & Greener Inc 1619 N Hoyne Ave Chicago 47 Ill

## PARTS, Speedometer

**(See also Dials; Gears and Pinions, Speedometer; also Shafting, Flexible)**

Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd Long Island City 1 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

## PARTS, Spring

Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Service Spring Co 701 St Paul St Indianapolis 6 Ind

## PARTS, Stake Body (Steel)

Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"

**PARTS, STARTING MOTOR—See Armatures; Brushes, Generator, and Starter; etc.**

## PARTS, Starting Motor Drive

**(See also Drives, Starter)**

American Motor Products Co Fond du Lac Wis "Ampco"
Colorado Fuel & Iron Corp Wickwire Spencer Steel Div 575 Madison Ave New York 22 N Y "CF&I-Wickwire" (Springs bolts and washers)
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Guaranteed Parts Co Seneca Falls N Y "GP"
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Keystone Carbon Co 1935 State St St Marys Pa
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Bolts)
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y (Springs bolts and washers)
Shurhit Products Inc 845 S Market St Waukegan Ill
Standard Motor Products Inc 3718 Northern Blvd Long Island City L I N Y "Blue Streak" (Springs etc)
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio (Washers)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Van Bergen & Greener Inc 1619 N Hoyne Ave Chicago 47 Ill "Van line"
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis

## PARTS, Steering Gear

Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio (Wheel hubs)
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Linkages)
Western Automotive Co 2300 S Parkway Chicago 16 Ill "Wesco" (Bearings bushings cups sectors shafts etc)
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## PARTS, Storage Battery

General Scientific Equipment Co 7516 Limekiln Pike Philadelphia 50 Pa "GS"
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
Owens - Corning Fiberglas Corp National Bank Bldg Toledo 1 Ohio "Fiberglas" (Retainer mats)
Price Battery Corp Grand St Hamburg Pa
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio

## PARTS, Torque Converter

Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill

## PARTS, Transmission

Automatic Transmission Parts Inc 1922 Ridge Ave Evanston Ill "ATP"
Baker Mfg Co 5660 W River Rd Marine City Mich (For trucks and buses)
Beckett Bronze Co 20th & S Walnut Sts Muncie Ind (Bronze synchronized rings)
Cleveland Welding Div American Machine & Fdry Co W 117th St & Berea Rd Cleveland 11 Ohio (Rings)
**DELCO MORAINE DIV GENERAL MOTORS CORP 1420 Wisconsin Blvd Dayton Ohio**
Grey Rock Div of Raybestos-Manhattan Inc Manheim Pa
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander"
Kings County Centerless Grinding Co 555 36th St Union City N J (Countershafts)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Automatic)
Napco Industries Inc Northwestern Ordnance Parts Div 834 N Seventh St Minneapolis 11 Minn
Neff-Perkins Co 33 Stage Ave Painesville Ohio (O-rings and seals for automatic transmissions)
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco" (Automatic and standard)
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M" (Discs for automatic transmissions)
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich (Automatic)
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
**SEALED POWER CORP 2001 Sanford St Muskegon Heights Mich (Automatic transmission rings)**
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill (Automatic)
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Pumps)
Thompson Products Motor Equipment Mfg Div Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio (Valves for tractors)
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio (Automatic)
**WAUSAU MOTOR PARTS CO P O Box 318 Schofield Wis (Rings)**
Wellman Co S K 200 Efibert Rd Bedford Ohio "Velvetouch" (Disc and gaskets for automatic transmissions)
Wesbar Stamping Corp West Bend Wis (Steel plates for automatic transmissions)
Western Automotive Co 2300 S Parkway Chicago 16 Ill

## PARTS, Truck Body (Plastic)

D E K Mfg Co 420 E Pine St Orrville Ohio
Filon Plastics Corp 333 N Van Ness St Hawthorne Calif (Fiberglass reinforced panels)
General Body Mfg Co 713 W Pennway Kansas City Mo "Han-D-Van" (Front end sections)
General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Molded fiberglass)**
Montpelier Mfg Co Montpelier Ohio (Roofs for delivery trucks)

## PARTS, Truck Body (Steel)

Anzick Auto Body Parts Co 23675 Mound Rd Van Dyke Mich "Fit-Rite"
Bath & Co Cyril 32400 Aurora Rd Solon Ohio (Roof rails and bows body posts door frames wheelhouse angles etc)
Binkley Co Warrentown Mo
Boardman Co 1401 S W 11th St Oklahoma City Okla
Crown Steel Products Co 1330 N Main St Orrville Ohio (Roofs hoods fenders etc)
Cutler Metal Products Co 1025 Line St Camden N J
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K&B"
Met-L-Wood Corp 6755 W 65th St Chicago 38 Ill
Midwest Body & Mfg Div Electrographic Corp S Central St Paris Ill
Nash Bros Co 2125 Dewey Ave Evanston Ill
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa (Cross sills corner rolls liner slats lintels etc)
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio (Roof bows)
Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio

## PARTS, Truck Body (Wood)

Avery Body Co W G 3002 N Mill St Jackson Mich (Body floors side racks cushion front seat assemblies etc)
Cook & Co Hazlehurst Ga

## PARTS, Universal Joint

Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer"
Elgin Machine Works Inc 412 N State St Elgin Ill
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Pilot"
Napco Industries Inc Northwestern Ordnance Parts Div 834 N Seventh St Minneapolis 11 Minn
Neapco Products Inc South & Cross Sts Pottstown Pa
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Precision Universal Joint Corp 615 S California Ave Chicago 12 Ill
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Western Automotive Co 2300 S Parkway Chicago 16 Ill "Wesco"

## PARTS, Water Pump

**(For Shafts—see Shafts, Water Pump)**

Accurate Products Inc 135 N Spring St Indianapolis Ind
Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Quality Built"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite" (Assemblies impellers packing nuts and bushings)
Elgin Machine Works Inc 412 N State St Elgin Ill
Grapho Products Inc PO Box 8604 Lawrence Ind
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Keystone Carbon Co 1935 State St St Marys Pa
L C Products Inc 1413 Naomi St Indianapolis 7 Ind
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo (Impellers assemblies shafts nuts and bushings)
Master Parts Div Airtex Products Inc Fairfield Ill
Parts Mfg Co 211 W 61st St New York 23 N Y "Parco"
**ROTARY SEAL DIV MUSKEGON PISTON RING CO Gardner St Sparta Mich (Mechanical shaft seals)**
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Thompson Products Motor Equipment Mfg Div Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Warner Machine Products Inc 1200 Rochester St Muncie Ind "WMP"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## PARTS, Windshield Wiper

Anderson Co 1075 Grant St Gary 40 Ind "Anco" (Arms blades and vacuum motors)
Sprague Devices Inc 500 Huron St Michigan City Ind "Air-Push" (Motors)
Trico Products Corp 817 Washington St Buffalo 3 N Y ("Trico Arctic" Blades arms and air motors "Trico Rainbow" "Trico Triple Action" & "Trico Cam-O-matic" blades)
Zaiger Corp 589 Essex St Lynn Mass "Curvematic" "Curve-Wips" "Glider" (Blades "Balanced Pressure" arms)

## PARTS and FITTINGS, Heater

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich (Automatic controls)**
Bishop & Babcock Mfg Co 1204 E 55th St Cleveland 4 Ohio "B & B" (Cores)
Blackstone Corp 1111 Allen St Jamestown N Y (Cores)
Curtis Automotive Devices Inc PO Box 297 Westfield Ind (Control valves)
Dole Valve Co 6201 Oakton St Morton Grove Ill (Control valves)
E A Laboratories Inc 636 Myrtle Ave Brooklyn 5 N Y
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Fedders Corp 57 Tonawanda St Buffalo 7 N Y (Heater cores)
HaDees Heater Products Huppower Div Hupp Corp 7450 Melville Ave Detroit 17 Mich
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich (Control valves)
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit 12 Mich (Coils)
Loock & Co R J 343 N Gay St Baltimore Md
Melvina Can Machinery Co 52-24 57th Drive Maspeth L I N Y (Components)
Modine Mfg Co 1500 DeKoven Ave Racine Wis (Cores)
O E M Products Co 5296 Northwest Highway Chicago 30 Ill (Also valves)

## PARTS AND FITTINGS, Heater —continued

Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Valves for Ford and Mercury cars sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Perfect Parts Inc 43 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Ranco Inc 601 W Fifth Ave Columbus 1 Ohio (Control valves)
**WEATHERHEAD CO Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind (Valves)**
Weldon Tool Co 3000 Woodhill Rd Cleveland 4 Ohio (Fuel pumps)
Young Radiator Co 709 S Marquette St Racine Wis (Heater cores)

## PASTE, Gasket Making

Duroyd Gasket & Die Mfg Co 1828 Amsterdam Ave New York N Y
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa "Plastic Gasket"
Hollingshead Corp R M 840 Cooper St Camden N J "Whiz"
P O B Mfg Co 3215 Colerain Ave Cincinnati Ohio "Gasket-Makers"
Permatex Co 300 Broadway Huntington Station N Y "Form-A-Gasket"
Stanley Co John T 642 W 30th St New York N Y "Mobo"

**PASTE, MASKING—See Compounds, Masking**
**PEDAL PADS—See Pads, Pedal**

## PEDALS, Accelerator

Anchor Rubber Products Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Tuftex"
Doan Mfg Div of Anchor Industries Inc 1725 London Rd Cleveland 12 Ohio "Armor-Flex"
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa
Kastar Inc 200 Lincoln Ave New York 54 N Y
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"

**PHENOLIC MOLDING MATERIALS — See Plastics—Materials**
**PHENOLIC PARTS — See Plastics — Cast; Laminated; Molded; also Sheets, Rods, Tubes and Filaments**
**PHOSPHATIZING MACHINES — See Machines, Phosphatizing**
**PICKLE CONTROL CHEMICALS—See Chemicals, Pickle Control**
**PICKLING ACIDS—See Acids, Pickling**
**PICKLING MACHINES—See Machines, Pickling**
**PICKLING TANKS—See Tanks, Metal Pickling**
**PICKUP TOOLS—See Tools, Nut, Screw or Bolt Holding**
**PIG IRON—See Iron, Pig**
**PILING CONVEYORS—See Elevators, Industrial (Portable)**
**PINIONS—See Gears and Pinions**
**PINS, CLEVIS—See Pins, Yoke**

## PINS, Cotter

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Chain Div of American Chain & Cable Co 454 E Princess St York Pa "Acco" "Campbell"
American Steel Co (PO Box 230) Sixth & Spring Sts Ellwood City Pa "Kelkotters"
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Brooks & Sons Inc M S Chester Conn
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich
Lamson & Sessions 5000 Tiedeman Rd Cleveland 9 Ohio
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
United Screw & Bolt Corp 3590 W 58th St Cleveland O
Western Wire Products Co 1415 S 18th St St Louis Mo "W W" "Castle Cotter" (Assortments)

## PINS, Drive

Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union N J

## PINS, King

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Austin Trailer Equipment Co 1148 W Western Ave Muskegon Mich (Trailer)
Brown Corp 213 Bellevue Ave Syracuse N Y
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Elgin Machine Works Inc 412 N State St Elgin Ill (Assemblies)
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Sets)
Holland Hitch Co 430 W 18th St Holland Mich
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Bull Dog" (For Ford cars)
Kings County Centerless Grinding Co 555 36th St Union City N J
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis Mo
Master Parts Div Airtex Products Inc Fairfield Ill
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Parts Mfg Co. 211 W 61st St New York 23 N Y "Parco"
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco"
Shuler Axle Co 2901 S Second St Louisville 8 Ky
Superior Machine Tool Co 329 E Firmin St Kokomo Ind
Thompson Products Motor Equipment Mfg Div Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Transit Parts Co 35700 Vine St Willoughby Ohio (For buses, trucks and trailers)
Trayer Products Inc E Clinton St Elmira N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## PINS, King (For Truck Trailers)

Miller Industrial Products Inc 213 E Cortland St Jackson Mich

## PINS, Lock

Trayer Products Inc E Clinton St Elmira N Y

## PINS, Piston

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Badger Mfg Co 1505 City Ct Marinette Wis
Brown Corp 313 Bellevue Ave Syracuse N Y
Burgess - Norton Mfg Co 737 Peyton St Geneva Ill "B-N Perfectlap"
Elgin Machine Works Inc 412 N State St Elgin Ill
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind
Kings County Centerless Grinding Co 555 36th St Union City N J
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Marquette Div Curtiss-Wright Corp 1145 Galewood Drive Cleveland 10 Ohio
Monmouth Products Co 6545 Carnegie Ave Cleveland 3, Ohio
Nylen Products Inc U S 12 Bridgman Mich
Ottawa Steel Products Inc 745 Woodlawn Ave Grand Haven Mich "OSP"
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Simplex Products Corp 3830 Kelly Ave Cleveland Ohio
Thompson Products Motor Equipment Mfg Div Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"

## PINS, Yoke

Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Buckeye Forging Co 9217 Miles Ave Cleveland 5 Ohio
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio
Groov-Pin Corp 1125 Hendricks Causeway Ridgeway N J
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Townsend Co Engineered Fasteners Div P O Box 70 Ellwood City Pa

## PIPES, Tail and Exhaust

(See also Tubing, Flexible Metallic)

AP Parts Corp AP Bldg 1801 Spielbusch Ave Toledo 1 Ohio
Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa
Arvin Industries Inc 13th St & Big Four RR Columbus Ind (Exhaust)
De Koven Mfg Co 1201 Michigan Blvd Racine Wis
Douglass Muffler Mfg Corp 5636 Shull St Bell Gardens Calif
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everbend" (Bendable)
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich
Goerlich's 619 Smith St Toledo 1 Ohio
Grand Automotive Products 2055 N Ruby St Melrose Park Ill
Haviland Co Arnold 1008 S Jackson St Defiance Ohio "Thermoflo"
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hy-Power"
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Maremont Muffler Div of MarPro Inc Maremont Bldg 168 N Michigan Ave Chicago 1 Ill (Also bendable)
Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich
Northern Tube Co Pinconning Mich
Ohio Parts Inc 307 Perry St Defiance Ohio
Powell Muffler Co 4235 W 42nd Pl Chicago 32 Ill
Pratt Muffler Div of MarPro Inc 168 N Michigan Ave Chicago Ill
Riker Mfg Inc 4901 Stickney Ave Toledo 11 Ohio (Tail)
Smithy's Muffler Co 6009 S Malt Ave Los Angeles 22 Calif
Tube Products Corp 320 N 2nd St Tipp City Ohio "Tippecanoe"
Walker Mfg Co of Wis 1201 Michigan Blvd Racine Wis
Western Piping & Engrg Co 123 Kansas St San Francisco 3 Calif (For trucks and buses)

**PIPING, EXHAUST AND INTAKE—See Manifolds, Intake and Exhaust**
**PISTON BORING MACHINES (AUTOMATIC) —See Machines, Piston Boring (Automatic)**
**PISTON CENTER DRILLING and FACING MACHINES—See Machines, Piston Center Drilling and Facing**
**PISTON MAKING MACHINES—See Machines, Piston Making**
**PISTON PINS—See Pins, Piston**
**PISTON RING GRINDERS — See Machines Grinding (Piston Ring)**
**PISTON RINGS—See Rings, Piston**

## PISTONS

(For piston castings—See Castings)

Al-Fin Div Fairchild Engine & Airplane Corp 375 Farmingdale Rd West Babylon L I N Y (Aluminum with bonded-in cast iron ring carriers)
Aluminum Alloys Corp 6650 Walton St Detroit 10 Mich "Ray Day"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Arrow Head Steel Products Co Howell Mich (Aluminum alloy Vanasil and cast iron)
Badger Mfg Co 1505 City Court Marinette Wis (Aluminum alloy)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich "Bohnalite"
Continental Motors Corp Muskegon 32 Mich
Edebrock Equipment Co 4921 W Jefferson Blvd Los Angeles 16 Calif (Oversize)
Elgin Machine Works Inc 412 N State St Elgin Ill
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind (Aluminum and cast iron)
**GILLETT & EATON INC 8th & Doughty Sts Lake City Minn "G & E" (Aluminum alloy vanasil and iron)**
Hy-Duty Products Corp 1801 S Hope St Los Angeles 15 Calif (Aluminum)
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Nylen Products Inc U S 12 Bridgman Mich (Aluminum and gray iron)

Ohio Piston & Machining Co 11786 Superior Ave NE Cleveland 6 Ohio ("Lo-Ex" & "Lynite" aluminum "Hyten" "De Luxe" cast iron "Strutype" steel insert aluminum)

**SEALED POWER CORP 2001 Sanford St Muskegon Heights Mich**

Sterling Aluminum Products Inc 2600 N Third St St Charles Mo "Conformatic" "Intra - Cast" "Sterling" "Anchor - Tite" (Aluminum)

Thompson Products Light Metals Div Thompson-Ramo-Wooldridge Inc 2269 Ashland Rd Cleveland 3 Ohio (Aluminum alloy; "Powerforged" extruded)

Toledo Steel Products Div of Thompson-Ramo - Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

Triplex Corp of America Div of Aluminum Industries Inc P O Box 666 Pueblo Colo (Aluminum)

United Engine & Machine Co 310 Preda St San Leandro Calif "Dualloy" & "Silv-O-Lite" (Aluminum)

White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"

**ZOLLNER CORP Bueter Rd Fort Wayne Ind (Aluminum alloy)**

## PLANERS, Metal Working

Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis

Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich

Rockford Machine Tool Co 2400 Kishwaukee St Rockford Ill

**PLANER TOOLS AND ATTACHMENTS—See Holders, Tool; also Tools, Lathe, Planer, Slotter and Shaper**

**PLANETARY AXLES—See Axles, Planetary**

**PLASTIC TANKS—See Tanks, Plastic**

## PLASTICS, Cast (Phenolic and Resin)

Dennis Chemical Co 2701 Papin St St Louis 3 Mo "Denflex" (Vinyl plastisols)

Durez Plastics Hooker Chemical Corp 1910 Walck Rd North Tonawanda N Y

Furane Plastics Inc 4516 Brazil St Los Angeles 39 Calif "Epibond" "Epocast" (Epoxies for tooling)

Kish Industries Inc 1301 N Turner St Lansing 6 Mich (Epoxy resin)

Marblette Corp 37-21 30th St Long Island City 1 N Y "Maraset" (For tooling)

Ren Plastics Inc 5422 S Cedar Rd Lansing 9 Mich (Resin for tooling)

## PLASTICS, Foam

**AIRTHANE CORP 7847 W 47th St Lyons Ill "Airthane" (Polyether)**

American Latex Products Corp 3341 El Segundo Blvd Hawthorne Calif "Stafoam"

American Rubber Products Corp 315 Brighton St LaPorte Ind (Polyurethane and polyether)

Bostrom Corp 133 W Oregon St Milwaukee 4 Wis "Bostrom Permathane" (Polyurethane)

Burkart Mfg Co F 4900 N Second St St Louis 7 Mo "Burkartfoam" (Polyurethane)

Curtis-Wright Corp Curon Div Quehanna Pa "Curon"

Davidson Rubber Co Dover N H (Polyurethane)

**DAYCO URETHANE DIV Dayco Corp Dayton 1 Ohio**

Dow Chemical Co Midland Mich "Styrofoam" "Ethafoam"

Dryden Rubber Div Sheller Mfg Corp 1014 S Kildare Ave Chicago 24 Ill

Firestone Rubber & Latex Products Co Fall River Mass

Forest City Products Inc Industrial Products Div 722 Bolivar Rd Cleveland 15 Ohio (Vinyl)

General Tire & Rubber Co Industrial Products Div Wabash Ind

Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio "Airfoam"

Marblette Corp 37-21 30th St Long Island City 1 N Y "Marafoam"

**MIDWEST FOAM PRODUCTS CO 1632 Chicago Ave Evanston Ill "Midfoam" (Polyurethane)**

Pittsburgh Plate Glass Co Fiber Glass Div 1 Gateway Center Pittsburgh 22 Pa

Reynolds Chemical Products Co 435 W Eight Mile Rd Whitmore Lake Mich "Reynofoam"

## PLASTICS, Laminated (Phenolic, Etc.)

American Brakeblok Div American Brake Shoe Co 900 W Maple Rd Birmingham Mich "ABK"

**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Dilecto"**

Farley & Loetscher Mfg Co Plastics Div Dubuque Iowa "Farlite"

Formica Corp 4614 Spring Grove Ave Cincinnati 32 Ohio (Phenolic)

Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del "Lamitex"

General Electric Co Chemical Div 1 Plastics Ave Pittsfield Mass "GE Textolite"

Kish Industries Inc 1301 N Turner St Lansing 6 Mich (Epoxy)

National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Phenolite"

Panelyte Div St Regis Paper Co 150 E 42nd St New York 17 N Y

Spaulding Fibre Co 310 Wheeler St Tonawanda N Y "Spauldite"

Synthane Corp Oaks Pa

**TAYLOR FIBRE CO Norristown 49 Pa (Also metal clad laminated)**

Westinghouse Electric Corp Micarta Div Hampton S C (Phenolic)

Willson Camera Co 1401 Lawrence Rd Havertown Pa

Wilmington Fibre Specialty Co New Castle Del "Ohmoid"

## PLASTICS, Materials (Phenolic, Urea, Cellulose, Acetate, Casein, Polystyrene, Nylon, etc.)

**(Molding powders, resins, impregnated fabric and paper, etc.)**

Adhere Inc 1220 Maple Ave Los Angeles 15 Calif "Toolite" (Phenolic liquid compound)

American Cyanamid Co Plastics & Resins Div 30 Rockefeller Plaza New York 20 N Y "Beetle" (Urea - formaldehyde molding compound "Cymel" melamine - formaldehyde molding compound)

American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace-Hide" (Rubber base)

Celanese Plastic Co 744 Broad St Newark N J "Celanese" (Acetate molding compounds; "Forticel" propionic molding compounds)

Chemical Products Corp King Philip Rd East Providence R I "Chem-o-sol" (Vinyl plastisol)

**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del "Celoron"**

**DAYCO URETHANE DIV DAYCO CORP Dayton 1 Ohio "Daycollan" (Urethane elastomers)**

**DOW CHEMICAL CO Midland Mich "Styron" "Ethocel" "Saran" "Zerlon" "Dow" "Dow PVC"**

**DOW CORNING CORP Midland Mich (Silicone molding compound)**

**DU PONT DE NEMOURS & CO E I POLYCHEMICALS DEPT Wilmington 98 Del ("Lucite" acrylic resin molding powders "Teflon" fluorocarbon resin molding powders "Butacite" polyvinyl butyral resin sheeting "Alathon" polyethylene resin molding powders "Zytel" nylon resin molding powders "Delrin" acetal resin molding powders)**

**DUREZ PLASTICS DIV HOOKER CHEMICAL CORP 1910 Walck Rd North Tonawanda N Y (Phenolic molding compounds and diallyl phthalate molding compounds)**

**ENJAY CHEMICAL CO 15 W 51st St New York 19 N Y "Escon" (Polypropylene)**

Furane Plastics Inc 4516 Brazil St Los Angeles 39 Calif "Calcerite" & "Plaspreg"

Gering Plastics Div of Studebaker-Packard Corp N 7th & Monroe Ave Kenilworth N J (Polystyrene vinyl polyethylene nylon butyrate and acetate)

**GOODRICH CHEMICAL CO B F 3135 Euclid Ave Cleveland 15 Ohio "Geon" "Abson"**

Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind (Vinyl for interior trim)

Hercules Powder Co Cellulose Products Dept 964 Market St Wilmington 99 Del "Hi-fax" (High-density polyethylene ethylene molding powder; "Penton" chlorinated polyether molding powder; "Pro-fax" polypropylene molding powder)

Johns-Manville Sales Corp Industrial Insulation Div 22 E 40th St New York N Y "Garan" "Vitron" (Glass fiber roving and yarn)

Kish Industries Inc 1301 N Turner St Lansing 6 Mich

**MARBON CHEMICAL DIV BORG-WARNER CORP Box 68 Washington W Va "Cycolac" (Acrylonitrile-butadiene-styrene)**

Mobay Chemical Co 1815 Washington Rd Pittsburgh 34 Pa "Multron" (Polyester resin; "Multrathane" elastomers; "Merlon" polycarbonate)

Molded Products Corp 4533 W Harrison St Chicago Ill

Monsanto Chemical Co Plastics Div Springfield 2 Mass ("Lustrex" styrene molding compounds "Resimene" melamine molding compounds "Resinox" phenolic molding compounds "Opalon" vinyl chloride compounds "Monsanto" polythylene molding compound)

Naugatuck Chemical Div U S Rubber Co Elm St Naugatuck Conn "Marvinol" (Polyvinyl chloride resin "Kralastic" resin-rubber compound)

Pittsburgh Plate Glass Co Fibre Glass Div 1 Gateway Center Pittsburgh 22 Pa (Fibre glass yarns strands and roving also polyester resin)

Plastic & Resin Sales Plastic & Coal Chemicals Div Allied Chemical Corp 40 Rector St New York 6 N Y "Plaskon" (Urea melamine nylon and alkyd molding compounds)

Polymer Chemicals Div W R Grace & Co 225 Allwood Rd Clifton N J "Grex" (Polyethylene resin)

Polymer Corp 2120 Fairmont Ave Reading Pa "Nylasint" & "Nylatron" (Nylon powder)

Ren Plastics Inc 5422 S Cedar Rd Lansing 9 Mich (Epoxy tooling compound)

Rogers Corp Rogers Conn

Röhm & Haas Co 222 W Washington Sq Philadelphia 5 Pa "Implex" "Plexiglas" (Acrylic resin molding powder)

Sawyer Co A J East Aurora N Y

Strick Trailer Div of Fruehauf Trailer Co 9th & Spruce Sts Perkasie Pa

Tennessee Eastman Co Kingsport Tenn "Tenite" (Cellulose acetate cellulose-acetate butyrate and cellulose acetate propionate; sole distributors Eastman Chemical Products Inc Kingsport Tenn)

Texas Eastman Co Div of Eastman Kodak Co Longview Tex (Polyethylene and polypropylene "Tenite" sole distributors Eastman Chemical Products Inc Kingsport Tenn)

Union Carbide Plastics Co Div of Union Carbide Corp 30 E 42nd St New York 17 N Y "Bakelite" (Phenolic polystyrene polyethylene vinyl chloride vinyl acetate vinyl butyral and epoxy resins)

United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "U S Royalite" (Vinyl chloride)

## PLASTICS, Molded (Phenolic, Urea, Cellulose Acetate, Polystyrene, etc.)

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill "Westfelt" (Synthetic resin)

Ace Plastic Co 91-30 Van Wyck Expressway Jamaica 35 N Y

American Insulator Corp New Freedom Pa "Aico"

Amos Molded Plastics Div Amos-Thompson Co 211 Ward St Edinburg Ind (Cellulose-acetate polystyrene polyethylene acrylic etc)

Andover Industries Inc Andover Ohio

Auburn Plastics Inc McMaster St Auburn N Y

Bakelite Corp 30 E 42nd St New York 17 N Y

Bangor Plastics Inc Bangor Mich

Brilhart Plastics Corp Old Country Rd Mineola N Y

Carlon Products Corp Chamberlain Rd Aurora Ohio

Chicago Molded Products Corp 1020 N Kolmar Ave Chicago 51 Ill (Custom molders of compression and injection components)

Cincinnati Milling Machine Co Cimastra Div 4701 Marburg Ave Cincinnati 9 Ohio (Reinforced)

Colt's Plastics Co P O Box 507 North Grosvenordale Conn

**CONSOLIDATED MOLDED PRODUCTS CORP 329 Cherry St Scranton 2 Pa**

**CONTINENTAL DIAMOND FIBRE CORP Newark 2 Del "Celoron"**

Continental Plastics Corp 2934 W Lake St Chicago 12 Ill

Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane" (Teflon)

Crenlo Inc 1600 Fourth Ave N W Rochester Minn (Fiberglass)

Davies Molding Co Harry 1428 N Wells St Chicago 10 Ill (Handles knobs and controls)

Dimco-Gray Co 207 E Sixth St Dayton 2 Ohio

Eaton Mfg Co Heater Div E 65th St & Central Ave Cleveland 4 Ohio

Electric Autolite Co Toledo 1 Ohio

Fabricon Products Div of Eagle-Picher Co 1721 Pleasant Ave River Rouge 18 Mich

Felsenthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill (Custom molders of thermoplastic acrylic polyethylene nylon acetate butyrate etc)

Formica Corp 4614 Spring Grove Ave Cincinnati 32 Ohio (Phenolic)

Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Bakelite)

Garlock Inc 402 Main St Palmyra N Y

General Industries Co Olive St Elyria Ohio

## PLASTICS, Molded—continued

General Tire & Rubber Co Industrial Products Div Wabash Ind "Syloy" (Fiberglass)
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "GRC" (Thermoplastic nylon and Delrim)
Grote Mfg Co State Route 7 Madison Ind
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Gulliksen Mfg Co Wm M Newton Lower Falls 62 Mass (Phenolic urea melamines diallyl phthalate and thermaflow)
Haveg Industries Inc Taunton Div 336 Weir St Taunton Mass
Hawley Products Co 333 N Sixth St St Charles Ill
Imperial Molded Products Corp 2856 W Harrison St Chicago 12 Ill
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton Ohio
Kish Industries Inc 1301 N Turner St Lansing 6 Mich
Kurz-Kasch Inc 1415 S Broadway Dayton 1 Ohio (Thermo-setting)
Lincoln Molded Plastics Inc Corwin & Clinton Sts Circleville Ohio
MacDonald Mfg Co 550 Green St New Baltimore Mich (Bushings gaskets gears knobs arm rests lenses dials etc)
Metal Specialty Co Este Ave & B & O R R Cincinnati 32 Ohio (Polystyrene nylon cellulose acetate etc)
Modern Industrial Plastics Inc 3337 N Dixie Dr Dayton 14 Ohio
Molded Insulation Co 335 E Price St Philadelphia 44 Pa "Mic"
National Lock Co 1902 Seventh St Rockford Ill
Norton Laboratories Inc 520 Mill St Lockport N Y (Polyester glass fibre)
Nylon Molded Products Corp Garrettsville Ohio (Injection)
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio**
Panelyte Div St Regis Paper Co 150 E 42nd St N Y 17 N Y (Polystyrene acrylics polyethylene etc)
Plasticite Corp 327 Rider Ave N Y 51 N Y (Cellulose acetate polystyrene polyethylene to order)
Quinn-Berry Corp 2609 W 12th St Erie Pa (Nylon cellulose acetate butyrate polystyrene polyethylene etc)
Raybestos-Manhattan Inc Equipment Sales Div PO Box 1021 Bridgeport Conn "R/M" (Teflon)
Raybestos-Manhattan Inc Plastic Products Div Manheim Pa "R/M (Teflon)
Renaud Plastics Inc 5422 S Cedar St Lansing 9 Mich "Ren"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Richardson Co 2667 Lake St Melrose Park Ill
Sawyer Co A J East Aurora N Y (Nylon)
Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill (Acrylic nylon and polyethylene)
Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts Trenton 4 N J
Structural Fibers Inc Fifth Ave Chadron Ohio
Superior Plastics Inc 426 N Oakley Blvd Chicago 12 Ill "Superlon" (Cellulose acetate butyrate vinylite ethylcellulose polystyrene methyl methacrylate polyvinyl chloride nylon and polystyrene)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y "Enrup" & "U S Royalite"
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Waterbury Companies Inc 835 S Main St Waterbury 20 Conn
Western Control Corp 2533 S West St Wichita Kans (Knobs washers brackets nuts etc)
Westinghouse Electric Corp Micarta Div Hampton S C (Phenolic)
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich
Yardley Molded Plastics Inc 142 Parsons Ave Columbus 21 Ohio

## PLASTICS, Reinforced

Armored Plastics Co Div Globe-Wernicke Industries Inc Lint & Dura Aves Toledo 12 Ohio (Fiberglass to order)
Cincinnati Milling Machine Co Cimastra Div 4701 Marburg Ave Cincinnati 9 Ohio
**DUREZ PLASTICS DIV HOOKER CHEMICAL CORP 1910 Walck Rd North Tonawanda N Y (Fibrous glass)**
**GISHOLT MACHINE CO 1245 E Washington St Madison 10 Wis "Gisholt Mastergias" (Fiberglass)**
Lewis Co G B 426 Montgomery St Watertown Wis (Fiberglass)
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "Scotchply"
**MOLDED FIBER GLASS BODY CO 4601 Benefit Ave Ashtabula Ohio (Fiberglass)**
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M Pyrotex"
**STRUCTURAL FIBERS INC Fifth Ave Chardon Ohio (Tanks etc)**
Wittman & Co Lawrence 1395 Marconi Blvd Copiaque N Y

## PLASTICS, Sheets, Rods, Tubes and Filaments

Acadia Div Western Felt Works 4115 W Ogden Ave Chicago 23 Ill (Synthetic resin sheets)
Ace Plastic Co 91-30 Van Wyck Expressway Jamaica 35 N Y
Anchor Plastics Co 36-36 36th St Long Island City 6 N Y
Auburn Plastics Inc McMaster St Auburn N Y (Elastomeric vinyls butyrate shapes and polystyrene sheets)
Cadillac Plastic & Chemical Co 15111 Second Ave Detroit 3 Mich "Cadco" (Cast acrylic rods and tubes cast styrene sheets extruded acrylic styrene polyethylene butyrate sheeting tubing and rods)
Campco a Div of Chicago Molded Products Corp 2727 N Normandy Ave Chicago 35 Ill "Campco" & "Registrite" (Rubber modified styrene sheet "Campcolite" tripolymer styrene sheet "Campco" cellulose acetate sheet and film cellulose butyrate sheet and film polyethylene sheet and film polypropylene sheet and film)
Carlon Products Corp Chamberlain Rd Aurora Ohio
Celanese Plastic Co 744 Broad St Newark N J "Celanese" (Acetate sheeting and film "Fortiflex" polyethylene sheeting and film)
**CONTINENTAL DIAMOND FIBRE CORP Newark 2 Del "Dilecto"**
Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane" (Rod and tubes)
Dow Chemical Co Midland Mich (Fibres for plastic fabric for tops upholstery and seat covers)
du Pont de Nemours & Co E I Film Dept Wilmington 98 Del "Mylar" (Polyester film)
du Pont de Nemours & Co E I Polychemicals Dept Wilmington 98 Del "Tynex" (Nylon monofilaments "Zytel" nylon resin)
du Pont de Nemours & Co E I Textile Fibers Dept Wilmington 98 Del "Orlon"
Electric Autolite Co Toledo 1 Ohio
Felsenthal & Sons Inc 3500 N Kedzie Ave Chicago 18 Ill (Custom fabricators of thermoplastic acrylic vinyls acetate polyethylene sheets etc)
Firestone Plastics Co P O Box 690 Pottstown Pa "Velon" (Filament and yarn)
Flexrock Co Packing Div 36th & Filbert Sts Philadelphia 4 Pa (Sheets rods and tubes)
Formica Corp 4614 Spring Grove Ave Cincinnati 32 Ohio
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del "Lamitex" (Laminated)
**GARLOCK INC 402 Main St Palmyra N Y**
General Electric Co Chemical & Metallugical Div Laminated Products Dept Coshocton Ohio "Textolite" (Laminated phenolic sheets rods and tubes)
Grote Mfg Co State Route 7 Madison Ind
Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton Ohio
Metal Specialty Co Este Ave & B&O RR Cincinnati 32 Ohio (Sheets)
Mica Insulator Div of Minnesota Mining & Mfg Co 801 Broadway Schenectady N Y "Lamicoid" (Laminated phenolic melamine silicone and epoxy)
Midwest Plastic Products Co 1801 Chicago Rd Chicago Heights Ill "Midlon" (Cellulose acetate cellulose acetate butyrate rtyrene and polyethylene sheeting)
Monsanto Chemical Co Plastics Div Springfield 2 Mass ("Ultron" polyvinyl chloride film and sheeting "Saflex" vinyl butyral film)
National Plastic Products Co Odenton Md "Saran" (Filament for automobile seat covers and upholstery)
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del "Phenolite" (Laminated phenolic "National" nylon Delrin and Pantom)
Naugatuck Chemical Div U S Rubber Co Elm St Naugatuck Conn "Marvibond" (Vinyl to metal clad laminated sheets)
Nixon Nitration Works Nixon N J (Rigid vinyl cellulose acetate cellulose nitrate cellulose acetate butyrate rigid polyethylene and polypropylene sheets cellulose acetate and cellulose acetate butyrate rods)
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio**
O'Sullivan Rubber Corp Valley Pike Winchester Va "Sullvac" (Thermoplastic sheeting "Sullvyne" vinyl sheeting)
Panelyte Div St Regis Paper Co 150 E 42nd St N Y 17 N Y (Laminated phenolic melamine silicone epoxy)
Plastics Div Visking Co 6733 W 65th St Chicago 38 Ill "Visqueen" (Polyethylene tubing and sheeting)
Polymer Corp 2120 Fairmont Ave Reading Pa "Polypenco" (Nylon and teflon)
Raybestos-Manhattan Inc Plastic Products Div Manheim Pa "R/M" (Teflon)
Resistoflex Corp Woodland Ave Roseland N J "Fluoroflex-T"
Richardson Co 2667 Lake St Melrose Park Ill "Insurok" (Laminated sheets rods and tubes)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill "Ryertex" (Laminated and polyvinyl chloride)
Seiberling Rubber Co Plastics Div Newcomerstown Ohio "Seilon" (Rigid thermoplastic sheets)
Spaulding Fibre Co 310 Wheeler St Tonawanda N Y "Spauldite"
Synflex Products Div Samuel Moore & Co Mantua Ohio (Nylon tubing)
Synthane Corp Oaks Pa (Laminated phenolic)
Taylor Fibre Co Norristown 49 Pa (Laminated phenolic)
Tri-Point Plastics Inc 175 I U Willetts Rd Albertson L I N Y "TSI" (Teflon sheets and rods)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Enrup" & "U S Royalite"
Vogt Mfg Corp 100 Fernwood Ave Rochester 21 N Y
Westinghouse Electric Corp Micarta Div Hampton S C (Laminated phenolic)
Wilmington Fibre Specialty Co New Castle Del "Ohmoid"
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich
Yardley Molded Plastics Inc 142 Parsons Ave Columbus 21 Ohio (Tubes)

## PLASTICS, Sheets (Transparent)

Ero Mfg Co 714 W Monroe St Chicago Ill
Homalite Corp 11 Brookside Dr Wilmington 4 Del "Dura-Lite" "Homalite"
Lushan Co 144 Moody St Waltham 54 Mass "Lucolite" "Regalite"
Marblette Corp 37-21 30th St Long Island City 1 N Y "Maroglas"
Röhm & Haas Co 222 W Washington Sq Philadelphia 5 Pa "Plexiglas" (Cast acrylic)

**PLASTIC MOLDING MACHINERY — See Presses, Plastic Molding**
**PLASTIC SEAT COVER AND UPHOLSTERY MATERIAL—See Fabric, Plastic (For Tops Upholstery and Seat Covers)**
**PLASTIC TESTING MACHINES—See Machines, Testing (Plastic)**
**PLATES, CLUTCH—See Discs, Clutch**

## PLATES, Clutch Pressure

Accurate Re-Nu Clutch Div of Mar-Pro Inc 168 N Michigan Ave Chicago 1 Ill
Eaton Mfg Co Marion Forge Div Route 95 W Marion Ohio
Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill

## PLATES, Floor (Truck and Bus)

Alan Wood Steel Co Conshohocken Pa "A W"
American Abrasive Metals Co 460 Coit St Irvington 11 N J "Alumalun" "Feralun"
Eastern Stainless Steel Corp P O Box 1975 Baltimore 3 Md "Super Diamond" (Stainless steel)
Great Lakes Steel Corp Stran-Steel Div Ecorse Detroit 29 Mich "Stran-Steel" (Steel)
**INLAND STEEL CO 30 W Monroe St Chicago 3 Ill "Inland 4-Way" (Steel)**
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa (Steel)
Reynolds Metals Co 6601 Broad St Richmond 19 Va

## PLATES, Name (Metal, Plastic, Etc.)

Acme Metal Etching Co P O Box 312 Monroe N C (Etched and lithographed metal)
Acromark Co 9 Morrell St Elizabeth 4 N J "Acroetch" (Etched metal; "Acroloy" cast metal; "Acroplac" plastic; "Acrofibe" fibre)
Adams Co S G 920 Olive St St Louis 1 Mo (Metal)
American Name Plate & Mfg Co 4254 W Arthington St Chicago 24 Ill "Anco"
Anderson & Sons Inc N Elm St Westfield Mass "Ansolite"

Benmatt Industries Inc 3447 E 15th St Los Angeles 23 Calif
Croname Inc 6201 Howard St Chicago 48 Ill
Douglas Co 620 12th Ave Minneapolis 4 Minn (Reflective sheeting)
Electric Autolite Co Toledo 1 Ohio
Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y (Metal)
Fox Co 3400 Beekman St Cincinnati 23 Ohio "Pridemarks" (Metal)
Gits Molding Corp 4600 W Huron St Chicago 44 Ill (Plastic)
Hanson Co C H 303 W Erie St Chicago Ill (Metal)
LaFrance Precision Casting Co 29th & McKean Sts Philadelphia Pa (Chrome)
Los Angeles Stamp & Stationery Co 1500 S Los Angeles St Los Angeles 15 Cal "Mar King"
Matthews & Co Jas H 3942 Forbes Ave Pittsburgh 13 Pa
Metal Decorating & Mfg Co 2021 W Fulton St Chicago 12 Ill
Miller Dial & Name Plate Co 4400 N Temple City Blvd El Monte Calif "Fotofoil" "Foilcals"
Multi-Color Process Co 317 S Quincy St Tulsa Okla "Metal-Stik" (Metal)
Northern Engraving & Mfg Co Fourth & Vine Sts La Crosse Wis (Etched lithographed and embossed metal)
Robbins Co Brooke & Maple Sts Attleboro Mass
Superior Steel Stamp Co 113 E St Clair Ave Cleveland 14 Ohio (Engraved plastic)
Ward's Name Plates 8504 Lyndon Ave Detroit 38 Mich
Willson Camera Co 1401 Lawrence Rd Havertown Pa (Plastic)
Yardley Molded Plastics Inc 142 Parsons Ave Columbus 21 Ohio (Plastic)

## PLATES, Step

Croname Inc 6201 Howard St Chicago 48 Ill "Rol Die" (Scuff)
Moore & Co Samuel Mantua Ohio "Rub-Bub"
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco" (Rubber)
Standard Products Co 2130 W 110th St Cleveland 2 Ohio (Scuff)

## PLATES, Surface and Base

Boice Gages Inc Hyde Park N Y (Surface)
**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich (Surface)**
Lake Shore Inc Iron Mountain Mich "Lakenite" (Gray iron)
Lee Co K O Congress at First Ave S E Aberdeen S D (Surface)
Scherr-Tumico 200 Lafayette St N Y 12 N Y (Surface)

## PLATES, Wearing

Ohio Knife Co Dreman Ave & B&O RR Cincinnati 23 Ohio "OK"

## PLATFORMS, Lift Truck

Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Colson Corp Elyria Ohio
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio
Excelsior Plimptruck Co 796 Atlantic St Stamford Conn "Excelsior" "Hercules"
Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Lansing Co 521 N Cedar St Lansing 3 Mich "Lanco"
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "Weld-Master"
Orangeville Mfg Co Orangeville Pa
Powell Pressed Steel Co Erie St Hubbard Ohio "Nesteel"
Raymond Corp 151 Madison St Greene N Y
Republic Steel Corp Pressed Steel Div 6100 Truscon Ave Cleveland 27 Ohio
West Bend Equipment Corp 216 S Water St West Bend Wis "Weld-Bilt"

**PLATING COMPOUNDS — See Chemicals, Electroplating**

**PLUG BUTTONS—See Buttons, Plug**

## PLUGS, Core Hole and Expansion

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y (Expansion)
Brewer-Titchener Corp 115 Pt Watson St Cortland N Y (Expansion)
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 36 Pa "Diamond G"
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich "Welch" (Core hole)
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Expansion)
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio
Perfect Parts Inc 43 W 23rd St New York N Y 10 (Expansion)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich (Expansion)
Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa (Expansion)
Stimpson Co Edwin B 70 Franklin Ave Brooklyn 5 N Y
Superior Metal Products Co 3180 Auburn Rd Auburn Heights Mich (Expansion)
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis (Expansion)

## PLUGS, Crankcase Drain

Allen Mfg Co W D 566 W Lake St Chicago Ill
Champ-Items Inc 6191 Maple Ave St Louis Mo (Oversize)
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Magnetic Drain Plug Co 1000 N Main St Wellington Ohio (Also threaded Dryseal)
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Taylor & Boggis Fdry 1261 Babbitt Rd Cleveland Ohio
Tourek Mfg Co J J 1901 S Kilbourn Ave Chicago 23 Ill
U S Plug & Fitting Co 1000 N Main St Wellington Ohio (Also threaded dryseal)
Universal Lubricating Systems Inc 747 Allegheny Ave Oakmont Pa (Oversize)

## PLUGS, Drain (Magnetic)

Lisle Corp 809 E Main St Clarinda Iowa
Taylor & Boggis Fdry 1261 Babbitt Rd Cleveland Ohio

**PLUGS, EXPANSION—See Plugs, Core Hole and Expansion**

**PLUGS, LAMP—See Connectors, Lamp (Electric)**

## PLUGS, Pipe

Allen Mfg Co Drawer 570 Hartford 1 Conn "Tru-Round"
Allen Mfg Co W D 566 W Lake St Chicago Ill
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Holo-Krome Screw Corp Hartford 10 Conn (Socket)
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Mac-it Parts Co Shippen & Liberty Sts Lancaster Pa
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Pittsburgh Plug & Products Corp 335 First St Pittsburgh 15 Pa
Protective Closures Co Caplugs Div 2207 Elmwood Ave Buffalo 23 N Y "Caplugs"
Set Screw & Mfg Co 270 Main St Bartlett Ill "Setko"
Taylor & Boggis Foundry 1261 Babbitt Rd Cleveland Ohio (Drain)
**TOUREK MFG CO J J 1901 S Kilbourn Ave Chicago 23 Ill**
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
U S Plug & Fitting Co 1000 N Main St Wellington Conn (Threaded dryseal cast iron brass steel breather vent and vent)
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"

## PLUGS, Spark

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**
Almquist Engrg Co Milford Pa "Spark-O-Matic"
B G Corp 321 Broad Ave Ridgefield N J
Bowers Battery & Spark Plug Co Reading Pa
Champion Spark Plug Co 900 Upton Ave Toledo 1 Ohio
Continental Mfg Corp 10411 W Washington Blvd Culver City Calif "Life-Time"
Doering Mfg Corp A L Station Plaza Bay side L I N Y "Aldor" "Doering"
Electric Autolite Co Toledo 1 Ohio "Autolite"
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Triple-Fire"
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Hastings Mfg Co N Hanover St Hastings Mich
Leonard Spark Plug Co 148 Summit St Newark 3 N J
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
Motor Master Products Corp PO Box 278 Defiance Ohio "Acme" "Blue Crown"
Trojan Products Co 109 N Union St Galion Ohio "Gold Bond" "Trojan" "Gold Medal" "United" "National" "Karlife" "Super-Trojan" "Multi-Fire"
Tungsten Spark Plug Mfg Tungsten Bldg 1716 S Michigan Ave Chicago 16 Ill

## PLUGS, TESTING (Adjustable)

**MOELLER MFG CO 2335 Durand Ave Racine Wis "Snap-Tite" "Turn-Tite"**

**PLYWOOD—See Panels, Plywood**

## POINTS, Contact (Ignition)

American Motor Products Co Fond du Lac Wis "Ampco"
American Platinum Works NJRR Ave at Oliver St Newark 5 N J "APW"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Blackstone Mfg Co Stan-Test Div 4630 W Harrison St Chicago 44 Ill "K-W"
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electric Autolite Co Toledo 1 Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Fansteel Metallurgical Corp 2200 Sheridan Rd North Chicago Ill
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Guaranteed Parts Co Seneca Falls N Y "GP"
**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
**MALLORY & CO P R 76 S Gray St Indianapolis Ind "Elkonium" "D-54"**
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Speer Carbon Co St Marys Pa
Springfield Electrical Specialties Inc 120 Wooster St New York 12 N Y "Superpoint"
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak"
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Tungsten Contact Mfg Co 7311 Cottage Ave North Bergen N J
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wilson Co H A 2655 U S Route 22 Union N J "Wilco"

**POLISHING COMPOUNDS — See Compounds, Buffing and Polishing (Metal)**

**POLISHING FELT—See Felt, Polishing and Rubbing**

**POLISHING MACHINES—See Machines, Buffing and Polishing; also Machines, Grinding and Polishing**

**POLISHING and BUFFING WHEELS — See Wheels, Buffing and Polishing**

**PORCELAIN, SPARK PLUG—See Insulators, Spark Plug**

**PORTABLE TOOL BALANCERS—See Balancers, Portable Tool**

## POSITIONERS, Welding

Aronson Machine Co Arcade N Y
Berkeley-Davis Inc 1021 Bohis St Danville Ill
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H"
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Panjiris Weldment Co 5151 Northrup St St Louis 10 Mo
Rexarc Inc West Alexandria Ohio "Sight Feed"
Sciaky Bros Inc 4915 W 67th St Chicago 38 Ill

**POTS, ANNEALING AND CASE-HARDENING—See Boxes and Pots, Annealing and Case-Hardening**

**POWDERED METALS—See Metals, Powdered**

**POWDERED METAL MACHINES — See Presses, Powdered Metal**

**POWDERED METAL SINTERING FURNACES—See Furnaces, Sintering (Powdered Metal)**

**POWER DIVIDERS, REAR AXLE — See Dividers, Power (Rear Axle)**

**POWER TAKE-OFFS—See Take-Offs, Power**

## POWER SUPPLIES, Constant Voltage Reference

**PERFORMANCE MEASUREMENTS CO 15120 Third Ave Detroit 3 Mich**

## POWER UNITS, Diesel

Allis-Chalmers Mfg Co Milwaukee 1 Wis
**CHRYSLER CORP MARINE & INDUSTRIAL ENGINE DIV 12200 E Jefferson Ave Detroit 31 Mich "Perkins"**
**FORD DIV FORD MOTOR CO INDUSTRIAL ENGINE DEPT P O Box 598 Dearborn Mich**
Hercules Motors Corp 101 11th St S E Canton 2 Ohio
Minneapolis-Moline Co Hopkins Minn
Ready-Power Co 3826 Grand River Ave Detroit 8 Mich (Diesel-electric and LP-G-electric for electric industrial trucks)
Sheppard Co R H 101 Philadelphia St Hanover Pa
Waukesha Motor Co W St Paul Ave Waukesha Wis
Witte Engine Works Oil Well Supply Div U S Steel Corp 1600 Oakland St Kansas City 26 Mo

## POWER UNITS, Gasoline

**(Portable and stationary gasoline engine units)**

Allis-Chalmers Mfg Co Milwaukee 1 Wis (Also LP-G)
Brennan Motor Mfg Co 500 E Water St Syracuse N Y
**CHRYSLER CORP MARINE & INDUSTRIAL ENGINE DIV 12200 E Jefferson Ave Detroit 31 Mich (Also LP-Gas)**
Continental Motors Corp Muskegon 82 Mich "Red Seal"
Ford Div Ford Motor Co Industrial Engine Dept Box 598 Dearborn Mich
Hercules Motors Corp 101 11th St S E Canton 2 Ohio
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill
Minneapolis-Moline Co Hopkins Minn (Also LP-Gas)
Ready-Power Co 3826 Grand River Ave Detroit 8 Mich (Gasoline-electric and LP-G-electric for electric industrial trucks)
Waukesha Motor Co W St Paul Ave Waukesha Wis
Witte Engine Works Oil Well Supply Div U S Steel Corp 1600 Oakland St Kansas City 26 Mo
Wolf Engrg Corp 1201 Main St Dallas Tex "Dynassist Wolf Pack" (Trailer propulsion)
Young Engine Corp P O Box 532 Canton Ohio

## POWER UNITS, Hydraulic (Auto)

**(For automatically operating doors, windows, rear lights, rear deck lids, driver's seats, motor hoods and folding tops)**

Detroit Harvester Co Dura Div 4500 Detroit Ave Toledo 12 Ohio (For convertible tops)

## POWER UNITS, Hydraulic (Industrial)

Barnes Corp John S 301 S Water St Rockford Ill
Bausch Machine Tool Co 156 Wason Ave Springfield 7 Mass
Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I "Circuit Pak" "Circuitmaster"
Century-Detroit Century Hydraulics Div 6101 Concord Ave Detroit 11 Mich
Double A Products Co Duncan St Manchester Mich
Dynex Inc 777 Dynex St Pewaukee Wis
Ex-Cell-O Corp 1200 Oakman Blvd Detroit 32 Mich
**HANNIFIN CO 543 S Wolf Rd Des Plaines Ill**
Hein-Werner Corp 1200 National Ave Waukesha Wis
Hydraulic Power Div Hydraulic Press Mfg Co 1000 Marion Rd Mt Gilead Ohio "H-P-M"
Lamb Co F Jos 5663 E Nine Mile Rd Detroit 34 Mich
Le Maire Machine Tool Co 2657 S Telegraph Rd Dearborn Mich
Logansport Machine Co 860 Center Ave Logansport Ind
Nugier Co F A 6374 Arizon Circle Los Angeles 45 Calif
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich

## POWER UNITS, Mechanical (Industrial)

Baush Machine Tool Co 156 Wason Ave Springfield 7 Mass (Leadscrew type)

## PREAMPLIFIERS

Sanborn Co 175 Wyman St Waltham 54 Mass

**PRECISION GAGES—See Blocks, Gage**

**PRE-HEATERS, ENGINE—See Heaters, Engine Pre-Heating**

**PRESS BRAKES—See Brakes, Press**

**PRESSED STEEL PARTS — See Stampings, Metal**

## PRESSES, Arbor

Acromark Co 9 Morrell St Elizabeth 4 N J "Hercules"
Barnes Corp John S 301 S Water St Rockford Ill
Bee-Line Co Box 569 Davenport Iowa
Bellows-Valvair Div of International Basic Economy Corp 222 W Market St Akron 3 Ohio (Pneumatic)
Bender Equipment Co J H 5430 Tweedy Blvd South Gate Calif
Dake Corp 724 Robbins Rd Grand Haven Mich
Famco Machine Co 3100 Sheridan Rd Kenosha Wis
French Oil Mill Machinery Co Piqua Ohio
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Greenerd Arbor Press Co 41 Crown St Nashua N H (Hand and hydraulic)
Hannifin Co 543 S Wolf St Des Plaines Ill (Pneumatic)
Houdaille Industries Inc Manzel Div 315 Babcock St Buffalo 10 N Y "Pulsolator"
Lempco Products Inc 5490 Dunham Rd Bedford Ohio (Electric and hydraulic)
Logansport Machine Co 860 Center Ave Logansport Ind "Logan" (Pneumatic and hydraulic)
Mead Specialties Co 4114 N Knox Ave Chicago 41 Ill (Pneumatic)
Nugier Co F A 6374 Arizon Circle Los Angeles 45 Calif (Hand and hydraulic)
Owatonna Tool Co 316 N Cedar St Owatonna Minn
Rotex Punch Co 2350 Alvardo St San Leandro Calif
Threadwell Tap & Die Co Greenfield Mass
Tripp F A 409 E Fort St Detroit 26 Mich
Whitney Metal Tool Co 190 Forbes St Rockford Ill (Bench)
Wilson Inc K R Arcade N Y "KRW"

## PRESSES, Bending

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Hamilton"
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Birdsboro Corp Birdsboro Pa
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Dake Corp 724 Robbins Rd Grand Haven Mich
Decherts Dynamics Corp 713 W Main St Palmyra Pa "Zeh & Hahnemann"
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeton N J (Hydraulic)
French Oil Mill Machinery Co Piqua Ohio
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Kling Bros Engrg Works 1320 N Kostner Ave Chicago 51 Ill
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
Leonard Precision Products Co 9200 Bolsa Ave Santa Ana Calif "Leonard Bandmaster"
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill "Bend-Ex" (Compressed air)
Pines Engrg Co 601 Walnut St Aurora Ill (Hydraulic)
Steelweld Machine Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio
Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago 19 Ill
Williams White & Co 100 Eighth St Moline Ill

**PRESSES, BROACHING—See Machines, Broaching; also Presses, Forcing; also Presses, Forging; also Presses, Hydraulic**

## PRESSES, Cutting and Creasing

Thomson-National Press Co Dean Ave Franklin Mass

## PRESSES, Deep Drawing

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Hamilton"
Birdsboro Corp Birdsboro Pa
Bliss Co E W 1375 Raff Rd S W Canton Ohio
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeton N J
French Oil Machinery Co Piqua Ohio
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn
**STEELWELD MACHINE DIV CLEVELAND CRANE & ENGRG CO 5867 E 289th St Wickcliffe Ohio**
Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago Ill
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y
Williams White & Co 100 Eighth St Moline Ill

**PRESSES, DRILL—See Machines, Drilling**

## PRESSES, Embossing

Birdsboro Corp Birdsboro Pa (Hydraulic)
Bliss Co E W 1375 Raff Rd S W Canton Ohio
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Dake Corp 724 Robbins Rd Grand Haven Mich
Decherts Dynamics Corp 713 W Main St Palmyra Pa "Zeh & Hahnemann"
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeton N J
French Oil Machinery Co Piqua Ohio
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Minster Machine Co 240 W 5th St Minster Ohio
Noble & Westbrook Mfg Co 20 Westbrook St East Hartford 8 Conn
Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago 19 Ill
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## PRESSES, Extruding

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Loewy" (Hydraulic)
Birdsboro Corp Birdsboro Pa (Hydraulic)
Bliss Co E W 1375 Raff Rd S W Canton Ohio
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill
Dow Chemical Co Midland Mich

Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeport N J (Hydraulic)
French Oil Mill Machinery Co Piqua Ohio
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
National Machinery Co Greenfield & Stanton Sts Tiffin Ohio
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## PRESSES, Forcing

Birdsboro Corp Birdsboro Pa (Hydraulic)
Dake Corp 724 Robbins Rd Grand Haven Mich
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Farquhar Co A B 142 N Duke St York Pa (Hydraulic)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Ferracute Machine Co 429 E Commerce St Bridgeport N J (Hydraulic)
Fox Engrg Co 1336 Francis St Jackson Mich
French Oil Mill Machinery Co Piqua Ohio
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
**HANNIFIN CO 543 S Wolf Rd Des Plaines Ill (Hydraulic)**
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
International Products Mfg Co 850 N Ogden Ave Chicago 22 Ill (Hydroelectric)
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
Logansport Machine Co 860 Center Ave Logansport Ind "Logan" (Pneumatic and hydraulic)
Lucas Machine Div New Britain Machine Co 12302 Kirby Ave Cleveland 8 Ohio
Owatonna Tool Co 316 N Cedar St Owatonna Minn
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## PRESSES, Forging

**AJAX MFG CO 1441 Chardon Rd Cleveland 17 Ohio**
Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Loewy"
Birdsboro Corp Birdsboro Pa (Hydraulic)
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Decherts Dynamics Corp 713 W Main St Palmyra Pa "Zeh & Hahnemann"
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Erie Foundry Co 1253 W 12th St Erie Pa (Mechanical)
Ferracute Machine Co 429 E Commerce St Bridgeport N J (Hydraulic)
French Oil Mill Machinery Co Piqua Ohio
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
Lucas Machine Tool Co 12302 Kirby Ave Cleveland 8 Ohio
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
National Machinery Co Tiffin Ohio "Maxipres"
Verson Allsteel Press Co 93rd St & Kenwood Ave Chicago Ill
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## PRESSES, Hydraulic

A C F Industries Div A C F Industries Inc Riverdale Md
Acco Equipment Div American Chain & Cable Co 1100 E Princess St York Pa
Air Hydraulics Inc 811 Belden St Jackson Mich
Anderson Bros Mfg Co 1907 Kiswaukee St Rockford Ill
Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Loewy"
Bethlehem Steel Co Bethlehem Pa
Birdsboro Corp Birdsboro Pa
Blackhawk Automotive Div Blackhawk Mfg Co 5325 W Rogers St Milwaukee 46 Wis
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Chambersburg Engrg Co Derbyshire St Chambersburg Pa
Chicago Pneumatic Tool Co 6 E 44th St New York 17 N Y "C P"
**CLEARING DIV OF U S INDUSTRIES INC 6499 W 65th St Chicago 38 Ill**
Clifton Hydraulic Press Co 289 Alwood Rd Clifton N J
Colonial Broach & Machine Co P O Box 37 Harper Station Detroit 13 Mich
Colton Co Div Snyder Corp 3400 E Lafayette St Detroit 7 Mich
Dake Corp 724 Robbins Rd Grand Haven Mich
Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus Ohio "Denison Multipress" "Multi-Unit"
Detroit Broach & Machine Co 950 S Rochester Rd Rochester Mich
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio
Erie Engine & Mfg Co 953 E 12th St Erie Pa "Eemco"
Erie Foundry Co 1253 W 12th St Erie Pa
Famco Machine Co 3100 Sheridan Rd Kenosha Wis
Ferracute Machine Co 429 E Commerce St Bridgeton N J
Fox Engrg Co 1336 Francis St Jackson Mich
French Oil Mill Machinery Co Piqua Ohio
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich
Greenerd Arbor Press Co 41 Crown St Nashua N H
**HANNIFIN CORP 543 S Wolf Rd Des Plaines Ill**
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Kane & Roach Niagara & Shonnard Sts Syracuse 4 N Y
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Lapointe Machine Tool Co 34 Tower St Hudson Mass "Lapointe Hudson"
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Link Engrg Co 13840 Elmira Ave Detroit 27 Mich
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Columbia"
Logan Engrg Co 4901 W Lawrence Ave Chicago 30 Ill
Logansport Machine Co 860 Center Ave Logansport Ind
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Nugier Co F A 6374 Arizon Circle Los Angeles 45 Calif
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Paul Machine Tool & Die Works 4600 S Kedzie Ave Chicago 32 Ill
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn (Shop and portable)
Schildmeier Co H C 312 N Senate Ave Indianapolis 4 Ind
Sutton Engrg Co First National Bank Bldg Pittsburgh 22 Pa
Tobin-Arp Mfg Co 6400 Penn Ave S Minneapolis 23 Minn "Tamco" (Air-hydraulic for piston pins)
Tripp F A 409 E Fort St Detroit 26 Mich
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago Ill "Verson Wheelon"**
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y
Williams White & Co 100 Eighth St Moline Ill
Wilson Inc K R Arcade N Y "KRW"
Winona Tool Mfg Co 1430 W Broadway Winona Minn "Wi-To-Co"
Wood Co Frank N 344 W Main St Waukesha Wis "Trucut"

## PRESSES, Injection Molding

(See also Presses, Plastic Molding)

Watson-Stillman Press Div Farrell-Birmingham Co 565 Blossom Rd Rochester 10 N Y

## PRESSES, Plastic Molding

Baker Bros Inc P O Box 101 Sta F Toledo 10 Ohio
Baldwin-Lima-Hamilton Corp Philadelphia 42 Pa
Birdsboro Corp Birdsboro Pa (Hydraulic)
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Dake Corp 724 Robbins Rd Grand Haven Mich
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Erie Engine & Mfg Co 953 E 12th St Erie Pa "Eemco"
Fellows Gear Shaper Co 78 River St Springfield Vt
French Oil Mill Machinery Co Piqua Ohio
**HANNIFIN CO 543 S Wolf Rd Des Plaines Ill (Pneumatic and hydraulic)**
Hydraulic Press Mfg Co 1000 Marion Rd Mount Gilead Ohio "H-P-M"
Improved Machinery Inc 150 Burke St Nashua N H "Impco"
Kux Machine Co 6725 N Ridge Ave Chicago 26 Ill
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Lester Engrg Co 2711 Church Ave Cleveland 13 Ohio (Sole distributors Lester-Phoenix Inc 2711 Church Ave Cleveland 10 Ohio)
Lewis Welding & Engineering Corp 100 Northfield Rd Bedford Ohio
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Hydro-Hold"
Logan Engrg Co 4901 N Lawrence Ave Chicago 30 Ill
National Automatic Tool Co S Seventh & N Sts Richmond Ind "Natco"
Reed-Prentice Div Package Machinery Co 330 Chestnut St East Longmeadow Mass
Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa
Verson Allsteel Press Co 93rd St & Kentwood Ave Chicago 19 Ill
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y
Williams White & Co 100 8th St Moline Ill

## PRESSES, Powdered Metal

(For compressing powdered metal)

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Hamilton"
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill
Colton Co Div of Snyder Corp Arthur 3400 E Lafayette St Detroit 7 Mich
Dake Corp 724 Robbins Rd Grand Haven Mich
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Haller Inc 16580 Northville Rd Northville Mich
Kux Machine Co 6725 N Ridge Ave Chicago 26 Ill
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
Milwaukee Foundry Equipment Div of Spo Inc 3238 W Pierce St Milwaukee Wis (Hydraulic)
Stokes Corp 5500 Tabor Rd Philadelphia 20 Pa
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y

**PRESSES, PUNCH—See Machines, Punching**

## PRESSES, Sheet Metal Working

Alpha Press & Machine Inc 9281 Freeland Ave Detroit 28 Mich
Baird Machine Co 1700 Stratford Ave Stratford Conn (Automatic)
Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa
Barnes Corp John S 301 S Water St Rockford Ill (Hydraulic)
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Birdsboro Corp Birdsboro Pa
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Brandes Press Co 6408 Euclid Ave Cleveland 3 Ohio
Chambersburg Engrg Co Derbyshire St Chambersburg Pa "Cecostamp"
**CLEARING DIV OF U S INDUSTRIES INC 6499 W 65th St Chicago 38 Ill**
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Coulter & McKenzie Machine Co 25 Union Ave Bridgeport Conn "C & M"
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill
Decherts Dynamics Corp 713 W Main St Palmyra Pa "Zeh & Hahnemann"
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif "Diamond" & "Multi-Max"
Dreis & Krump Mfg Co 7424 Loomis Blvd Chicago Ill "Chicago"
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Emhart Mfg Co Hudson Div Union Turnpike Hudson N Y "V & O"
Erie Foundry Co 1253 W 12th St Erie Pa (Mechanical)
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"
Federal Press Co 511 E Division St Elkhart Ind
Ferracute Machine Co 429 E Commerce St Bridgeton N J
French Oil Mill Machinery Co Piqua Ohio
Hufford Div Siegler Corp 1700 E Grand Ave El Segundo Calif
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"

## PRESSES, Sheet Metal Working —continued

Johnson Machine & Press Corp 620 W Indiana Ave Elkhart Ind
L & J Press Corp Elkhart Ind
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y
Minster Machine Co 240 W 5th St Minster Ohio
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Perkins Machine Co 12 Perkins Ave Warren Mass
Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio "Precision Flexopress"
Rodgers Hydraulic Inc 7401 Walker St Minneapolis 26 Minn
Steelweld Machine Div Cleveland Crane & Engrg Co 5867 E 289th St Wickliffe Ohio
U S Tool Co 255 N 18th St Ampere (East Orange) N J
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago Ill**
Walsh Press & Die Div of American Gage & Machine Co 4709 W Kinzie St Chicago 44 Ill
Waterbury Farrel Foundry & Machine Co Div of Textron Inc 453 Bank St Waterbury 20 Conn
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y (Hydraulic)
Wean Equipment Co 22828 Lakeland Ave Euclid Cleveland 17 Ohio
Williams White & Co 100 Eighth St Moline Ill

**PRESSES, STAMPING — See Presses, Sheet Metal Working**

## PRESSES, Straightening

(Including bench, pedestal and power types; also Machines, Straightening)

Anderson Bros Mfg Co 1907 Kishwaukee St Rockford Ill (Hydraulic)
Barnes Corp John S 301 S Water St Rockford Ill
Bear Mfg Co 21st St & Fifth Ave Rock Island Ill (Axle and wheel)
Bee-Line Co Box 569 Davenport Iowa (Axle brake drum hub frame and spring rearching)
Birdsboro Corp Birdsboro Pa
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Colonial Broach & Machine Co P O Box 37 Harper Station Detroit 13 Mich
Dake Corp 724 Robbins Rd Grand Haven Mich
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio (Hydraulic)
Ferracute Machine Co 429 E Commerce St Bridgeton N J
Fox Engrg Co 1336 Francis St Jackson Mich
General Mfg & Engrg Co 6432 Farnsworth Ave Detroit 11 Mich "Flexible Power"
Greenerd Arbor Press Co 41 Crown St Nashua N H
**HANNIFIN CO 543 S Wolf Rd Des Plaines Ill (Hydraulic)**
Hydraulic Press Mfg Co Mount Gilead Ohio "H-P-M"
Industrial Metal Products Corp 3417 W St Joseph St Lansing 1 Mich "Impco" (Transmission shaft, axle shaft, rocker arm shaft, camshaft and crankshaft)
Lake Erie Machinery Corp 890 Woodward Ave Buffalo 17 N Y (Hydraulic)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Mackintosh-Hemphill Div E W Bliss Co 901 Bingham St S S Pittsburgh 3 Pa (Tubing)
Manbee Equip Div Bear Mfg Co P O Box 607 Rock Island Ill
Riess Mfg Co 315 S Union St Kokomo Ind (Axle)
Schildmeier Co H C 312 N Senate Ave Indianapolis 4 Ind (Axle steering arms drive shafts, knee-action parts hubs brake drums etc)
Springfield Machine Tool Co 631 Southern Ave W Springfield Ohio (Bench)
Storm-Vulcan Inc 2225 Burbank St Dallas 35 Tex (Connecting rod)
Sutton Engrg Co First National Bank Bldg Pittsburgh 22 Pa
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago Ill**
Watson-Stillman Press Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y
Williams White & Co 100 Eighth St Moline Ill

## PRESSES, Tire

(For pressing hard rubber tires on and off rims)

Dake Corp 724 Robbins Rd Grand Haven Mich

## PRESSES, Tire and Tube Curing

McNeil Machine & Engineering Co 96 E Crosier St Akron 11 Ohio "McNeil-Akron"

## PRESSES, Trimming

**GREENLEE BROS & CO 1702 Mason Ave Rockford Ill**

## PRESSES, Welding

Baldwin-Lima-Hamilton Corp Philadelphia National Bank Bldg Philadelphia 7 Pa "Hamilton"
Barnes Corp John S 301 S Water St Rockford Ill
Bliss Co E W 1375 Raff Rd S W Canton Ohio
Clearing Div of U S Industries Inc 6499 W 65th St Chicago 38 Ill (Spot)
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio "Warco"

**PRESSURE SWITCHES—See Switches, Pressure (Air & Hydraulic)**

**PRESSURE TESTING MACHINES—See Machines, Pressure and Vacuum Testing**

## PRIMERS, Engine (Hand)

Dole Valve Co 6201 Oakton St Morton Grove Ill
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
**KOHLER CO Kohler Wis**
Standard Oil Co of Calif Western Operations Inc 225 Bush St San Francisco 20 Calif "Chevron"
Start Pilot Corp 61 Second St Mineola N Y
Turner Corp 821 Park Ave Sycamore Ill "Quick-Start"

**PRIMING CUPS—See Cups, Priming**

**PRINTED CIRCUITS—See Circuits, Printed**

**PROFILE GRINDING MACHINES—See Machines, Profiling**

**PROFILING MACHINES—See Machines, Profiling**

**PROPELLER SHAFTS—See Shafts, Propeller**

**PROTECTIVE COATINGS FOR METAL PARTS — See Coatings, Protective (Metal Parts)**

## PROTECTORS, Ear (Industrial)

**BAUSCH & LOMB OPTICAL CO 14161 Bausch St Rochester 2 N Y**

**PRUSSIAN BLUE—See Blue, Mechanics'**

## PULLEYS, Belt (Auto)

(For fan, generator or accessory drives)

Automatic Steel Products Inc Spun Steel Div 1201 Camden Ave S W Canton 6 Ohio "Spunsteel"
Indestro Mfg Co 2649 N Kildare Ave Chicago Ill
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill (Generator)
Lansing Stamping Co So Pens Ave Lansing Mich
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Generator) (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

**PUMP FLOATS, OIL—See Floats, Oil Pump**

**PUMP PARTS AND FITTINGS—See Couplings, Magneto, Generator and Water Pump; Cups, Leather; Hose, Air (Tire Inflating); Parts, Water Pump; Rings & Seals, Oil & Grease Retaining; also Shafts, Water Pump**

**PUMPS, AIR—See Compressors, Air**

## PUMPS, Barrel Emptying (Pneumatic)

Binks Mfg Co 3114 Carroll Ave Chicago 12 Ill
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite" (For paint, lubricating oil, etc)

## PUMPS, Fuel (Aircraft)

Pesco Products Div Borg-Warner Corp 24700 N Miles Rd Bedford Ohio

## PUMPS, Fuel (Auto)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich (Mechanical and electric also combustion fuel and vacuum)**
Airtex Automotive Div Airtex Products Inc Fairfield Ill (Also combination fuel and vacuum)
Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
American Motor Products Co Fond du Lac Wis "Ampco"
Blackstone Mfg Co 4630 W Harrison St Chicago 44 Ill
Carter Carburetor Div of ACF Industries Inc 2840 N Spring Ave St Louis 7 Mo (Electric and mechanical)
Eastern Industries Inc 100 Skiff St Hamden Conn
Eclipse Machine Div Bendix Corp Elmira N Y "Bendix" (Electric)
Electric Autolite Co Toledo 1 Ohio
Electric Autopulse Div Walbro Corp 6242 Garfield St Cass City Mich "Autopulse"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J (Also combination fuel and vacuum)
Master Parts Div Airtex Products Inc Fairfield Ill
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill (Electric)
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich
Titan Pump & Engrg Corp Novi Mich
Tokheim Corp 1602 Wabash Ave Fort Wayne 1 Ind (Electric)
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis "Capac"

**PUMPS, GAS ENGINE DRIVEN—See Compressors, Air (Gasoline Engine Driven)**

**PUMPS, GREASE (PORTABLE)—See Lubricators, Hand; also Lubricators, Portable Air, Electric and Hand) [High Pressure]**

## PUMPS, Hydraulic (Auto, Truck, Etc.)

Aero Mfg & Machining Co 2724 Ninth St Muskegon Heights Mich
Barnes Corp John S 301 S Water St Rockford Ill (For power steering)
Bendix Lakeshore Div Bendix Corp Lake Shore Drive St Joseph Mich
Berry Hydraulics Div of Oliver Tyrone Corp Oliver Bldg Pittsburgh 22 Pa
Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio
Dynex Inc 777 Dynex St Pewaukee Wis
Eastern Industries Inc 100 Skiff St Hamden Conn
**EATON MFG CO PUMP DIV W Hanover St Marshall Mich (For power steering units and automatic transmissions)**
Hein-Werner Corp 1200 National Ave Waukesha Wis
Hupp Aviation Div Hupp Corp 6633 W 65th St Chicago 38 Ill "Hydroid"
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit 12 Mich
Monarch Road Machinery Co 1331 Michigan St N E Grand Rapids 3 Mich "Hy-Lo-Jack"
Muncie Parts Mfg Co 342 N Pershing Dr Muncie Ind (Truck)
New York Air Brake Co Hydreco Div Kalamazoo Mich "Hydreco" (Mobile equipment)
Owatonna Tool Co 342 N Cedar St Owatonna Minn
Roper Hydraulics Inc P O Box 269 Commerce Ga
Sheffer Corp 326 W Wyoming Ave Cincinnati 15 Ohio (Hand operated)
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich (For power steering automatic transmission and implement powering)
Tuthill Pump Co 939 E 95th St Chicago 19 Ill
**VICKERS INC MOBILE HYDRAULICS DIV Administrative & Engrg Center Detroit 32 Mich (For power steering)**
Webster Electric Co 1900 Clark St Racine Wis
Wisconsin Hydraulics Inc 3165 N 30th St Milwaukee 16 Wis (For truck body hoists)
Wooster Div Borg-Warner Corp Old Mansfield Rd Wooster Ohio "Borg-Warner"

## PUMPS, Hydraulic (Machine Tool, Etc.)

Adel Precision Products Div of General Metal Corp 1444 Washington Ave Huntington 4 W Va
Barnes Corp John S 301 S Water St Rockford Ill
Berry Hydraulic Div of Oliver Tyrone Corp Oliver Bldg Pittsburgh 22 Pa
Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio
Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio "Denison Hydroilic"
Double A Products Co Duncan St Manchester Mich "Gerotor"
Duff-Norton Co 2709 Preble Ave N S Pittsburgh Pa
Dynex Inc 777 Dynex St Pewaukee Wis
Eastern Industries Inc 100 Skiff St Hamden Conn
Elmes Engineering Div American Steel Foundries 1163 Tennessee Ave Cincinnati 29 Ohio

Hein-Werner Corp 1200 National Ave, Waukesha Wis
Hydraulic Power Div Hydraulic Press Mfg 1000 Marion Rd Mt Gilead Ohio "H-P-M"
Hydraulic Unit Specialties Co Airport Rd Waukesha Wis "Husco"
Lapointe Machine Tool Co 34 Tower St Hudson Mass
Monarch Road Machinery Co 1331 Michigan St N E Grand Rapids 3 Mich "Hy-Lo-Jack"
New York Air Brake Co Hydreco Div Kalamazoo Mich "Hydreco"
Oilgear Co 1560 W Pierce St Milwaukee 4 Wis
Racine Hydraulics & Machinery Inc 2000 Albert St Racine Wis
Roper Hydraulics Inc P O Box 269 Commerce Ga
Star Hydraulics Inc 2638 Davisson St River Grove Ill
Tuthill Pump Co 939 E 95th St Chicago 19 Ill
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich
Wooster Div Borg-Warner Corp Old Mansfield Rd Wooster Ohio "Borg-Warner"

## PUMPS, Machine Tool

Atlas Press Co 1842 N Pitcher St Kalamazoo 1 Mich
Barnes Corp John S 301 S Water St Rockford Ill
Brown & Sharpe Mfg Co 235 Promenade St Providence R I
Dura Corp Paris Products Div Paris Ky "Pioneer"
Graymills Corp 3705 N Lincoln Ave Chicago 13 Ill (Portable)
Roper Hydraulics Inc P O Box 269 Commerce Ga
Ruthman Machinery Co 1809 Reading Rd Cincinnati 2 Ohio "Gusher"
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Star Jack Co 2638 Davisson St River Grove Ill
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich
Tuthill Pump Co 929 E 95th St Chicago 19 Ill
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich (For hydraulic control systems)
Webster Electric Co 1900 Clark St Racine Wis

## PUMPS, Oil Circulating (Engine Driven)

Eaton Mfg Co Pump Div W Hanover St Marshall Mich
Elgin Machine Works Inc 412 N State St Elgin Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Bull Dog" (For Ford Chevrolet and Plymouth cars)
Lipman Pump Works 2340 11th St Rockford Ill
Melling Tool Co 145 W Monroe St Jackson Mich
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind "Hy Duty"**
Sundstrand Machine Tool Co Hydraulic Div Rockford Ill "Sundstrand Roto-Roll"
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## PUMPS, Vacuum

AC The Electronics Div of General Motors 1300 N Dort Hway Flint 2 Mich
Central Scientific Co 1700 Irving Park Rd Chicago 13 Ill "Cenco"
Consolidated Vacuum Corp 1775 Mt Read Blvd Rochester 3 N Y "C V C"
Hevi Duty Electric Co 3002 W Burleigh St Milwaukee 1 Wis
Leiman Bros Inc 207 Christie St Newark 5 N J
Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa
Trico Products Co 817 Washington St Buffalo 3 N Y "Electro-Vac" (For windshield wipers)

## PUMPS, Water Circulating (Auto)

Airtex Automotive Div Airtex Products Inc Fairfield Ill
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Cloyes Gear & Products Inc 17214 Roseland Rd N E Cleveland 12 Ohio "Power-Flow"
Elgin Machine Works Inc 412 N State St Elgin Ill
General Products Corp 103 N Horton St Jackson Mich (Tractor)
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Grapho Products Inc P O Box 8604 Lawrence Ind
Imco Mfg & Sales Corp 10 E Lafayette Ave Baltimore 2 Md
L C Products Inc 14 Naomi St Indianapolis 7 Ind
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis 10 Mo
Master Parts Div Airtex Products Inc Fairfield Ill
Parts Mfg Co 211 W 61st St New York 23 N Y "Parco"
Preferred Electric & Wire Co Bush Terminal Bldg #8 Brooklyn 32 N Y
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind "Hy Duty"**
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
Thompson Products Motor Equipment Mfg Div Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Warner Machine Products Inc 1200 Rochester St Muncie Ind "WMP"
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

## PUNCHES, Arch or Washer

Osborne & Co S S Jersey & Second Sts Harrison N J

## PUNCHES, Center, Prick and Drift

Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill "C-T-K"
Cincinnati Tool Co 1967 Waverly Ave Cincinnati 12 Ohio "Hargrave"
Cleveland Steel Tool Co 660 E 82nd St Cleveland 8 Ohio
Cornwell Quality Tools Co Mogadore Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill "Duro-Chrome"
Herbrand Div Bingham - Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"
Ken Tool Mfg Co 768 E North St Akron Ohio
Kraeuter & Co 585 18th Ave Newark 3 N J
Mayhew Steel Products Inc Sears St Shelburne Falls Mass
Mechanic's Tool & Forge Co Howard St Sabina 1 Ohio "Mac"
Millers Falls Co 57 Wells St Greenfield Mass
Nasa Tool Mfg Corp 3427 Locust Corner Rd Amelia Ohio
Nupla Mfg Div of New Plastic Corp 1026 N Sycamore St Los Angeles 38 Calif (Drift)
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
P & C Tool Co Box 5926 Milwaukie Ore
Penens Tool Corp 3900 Wesley Terrace Schiller Park Ill "Challenger"
Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif
Quality Tools Corp Railroad St New Wilmington Pa
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Stanley Tools 111 Elm St New Britain Conn
Starrett Co L S 1 Crescent St Athol Mass
Stortz & Son John 210 Vine St Philadelphia 6 Pa
Union Tool Co 48 E River St Orange Mass
Vlchek Tool Co 3001 E 87th St Cleveland 4 Ohio
Whitaker Mfg Co 409 S Green St Chicago Ill
Wilde Tool Co Hiawatha Kans
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

## PUNCHES, Lever (Hand)

Hendley & Whittemore Co Box 959 Beloit Wis
Lewthwaite Machine Co T H 324 E 47th St New York N Y "THL"
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Whitney Metal Tool Co 190 Forbes St Rockford Ill

**PUNCHES, PRICK — See Punches, Center, Prick and Drift**

**PUNCHES, STANDARD—See Punches and Dies, Standard**

**PUNCHES, WASHER—See Punches, Arch or Washer**

## PUNCHES and DIES, Standard

**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**

## PUNCHES and SHEARS

**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y**
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Consolidated Machine Tool Div Farrel-Birmingham Co 565 Blossom Rd Rochester 10 N Y "Hilles & Jones"
Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Gundlach Machine Co T J 226 Centerville Ave Belleville Ill "Little Giant" (Bench)
Hendley & Whittemore Co Box 959 Beloit Wis "Beloit"
Kent-Owens Machine Co 958 Wall St Toledo Ohio
Kling Bros Engineering Works 1320 N Kostner Ave Chicago 51 Ill
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Perkins Machine Co 12 Perkins Ave Warren Mass
Williams White & Co 100 Eighth St Moline Ill

## PURIFIERS, Exhaust (For Internal Combustion Engines)

Oxy-Catalyst Inc Berwyn Pa "OCM"

## PUSHBUTTONS, Industrial

General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
Westinghouse Electric Corp Standard Control Div Beaver Pa

## PYROMETERS

(See also Thermometers, Recording and Indicating)

Assembly Products Inc 75 Wilson Mills Rd Chesterland Ohio "API"
Barber-Colman Co 1300 Rock St Rockford Ill "Wheelco"
Bristol Co Waterbury 20 Conn
Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave Newark 12 N J
Engelhard Industries Inc Instruments & Systems Div 850 Passaic Ave E Newark N J
Foxboro Co Neponset Ave Foxboro Mass
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Gordon Co Claud S 3000 S Wallace St Chicago 16 Ill "Xactemp"
Huppert Co K H 6830 Cottage Grove Ave Chicago 37 Ill (Portable)
Illinois Testing Laboratories 420 N La Salle St Chicago Ill "Alnor" "Pyro-Lance"
Lewis Engineering Co 339 Church St Naugatuck Conn
Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Aves Philadelphia 44 Pa "Electronik" "Pyr-O-Vane" "Protect-O-Vane" "Radiamatic"
Pyrometer Instrument Co Bergenfield N J "Pyro"

**QUENCHING MACHINES — See Machines, Quenching**

**QUENCHING OILS—See Oils, Quenching**

**QUENCHING TANKS—See Tanks, Quenching**

**RACES, BALL—See Cups and Cones, Ball**

**RACKS, BAR STOCK—See Racks, Stock, Tire and Tool (Metal)**

## RACKS, Stock, Tire and Tool (Metal)

Acme Steel Co 135th St & Perry Ave Chicago 27 Ill
Angle Steel Inc 56 Oak St Plainwell Mich "ASI"
Arrow Products Inc S Ferry St Grand Haven Mich "Arr O-Flo-Rail" (Live storage stock)
Balloon Tire Mould Co 527 Ceres Ave Los Angeles 13 Cal "Brown" (Tire)
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
**BAY PRODUCTS DIV AMERICAN METAL WORKS INC 1835 W Cambria St Philadelphia 32 Pa (Steel tool)**
**BERGER DIV REPUBLIC STEEL CORP 1038 Belden Ave N E Canton 5 Ohio**
Bernard-Franklin Co Healey & Bath Sts Philadelphia 37 Pa "BFC"
Bernard Gloeker North East Co Robinson & Wall Sts North East Pa "Adjusto" (Drum die stock cable reel etc; "Ridgurak" systems)
Branick Mfg Co 2600 Third Ave N Fargo N D (Tire)

## RACKS, Stock, Tire and Tool (Metal) —continued

Brown Engineering Co 131 N Third St Reading Pa (Stock)
Chicago Tramrail Corp 1330 S Kostner Ave Chicago 23 Ill "Trak-Rak"
Coats Co 3001 5th and S Fort Dodge Iowa (Tire sole distributors Jack P Hennessy Sales Co 12 Depot Sq Englewood N J)
Durlach Can & Iron Works 325 Spring St N Y N Y
Economy Engineering Co 4511 W Lake St Chicago 24 Ill (Barrel)
Equipment Mfg Inc 21550 Hoover Rd Detroit 5 Mich (Stock)
Equipto Div Aurora Equipment Co Prairie St at Cleveland Aurora Ill
Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"
Fenton Industries 5105 San Fernando Rd W Los Angeles 39 Calif "Fenton Fooler" (Tire; "Handy van" (Portable drum)
Frick-Gallagher Mfg Co 200 W Second St Wellston Ohio "FGM"
Haertel Co Walter 2840 Fourth Ave S Minneapolis 8 Minn "Adjusto Deck"
Hartman Metal Fabricators Inc Waterloo N Y "Flexirack"
Heller & Co W C 1907 Wabash Ave Montpelier Ohio
Kirspel Industries Inc Livingston N J (Portable tire)
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "Loadmaster"
Lyon Metal Products Inc 609 Monroe Ave Aurora Ill
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich "MHS" (Stock)
Morrison-International Corp P O 185 Sta F Buffalo 12 N Y (Sole distributors Jack P Hennessy Sales Co Englewood N J)
Paltier Corp 1701 Kentucky St Michigan City Ind (Flexible and pyramid portable; also adjustable)
Republic Steel Corp 1441 Republic Bldg Cleveland 1 Ohio "Republic Wedge Lock Parts" (Storage units)
Revolvator Co 2026 86th St North Bergen N J (Barrel and drum)
Unistrut Products Co 933 Washington Blvd Chicago 7 Ill (Framing)

**RADIAL DRAW FORMING MACHINES—See Machines, Forming (Radial Draw)**

**RADIATOR PARTS and ATTACHMENTS**
**See following heads:**
**Caps, Radiator**
**Cores, Radiator**
**Fans, Radiator**
**Gages, Water Temperature Indicating**
**Grilles, Radiator**
**Guards, Radiator Grille Fender and Trunk**
**Heaters, Engine Pre-Heating**
**Hose, Radiator**
**Monograms, Initials and Emblems (Ornamental)**
**Ornaments, Radiator and Hood**
**Shutters, Radiator**

## RADIATORS, Engine Cooling

**AUTO RADIATOR MFG CO 2001 Indiana Ave Chicago 16 Ill "Eureka"**
Beacon Auto Radiator Co 110 Brookline Ave Boston 15 Mass
Daniel Radiator Corp 5542 Harvey Wilson Dr Houston 20 Tex "Gold Seal"
Fedders Corp Co 57 Tonawanda St Buffalo 7 N Y
**G & O MFG CO 138 Winchester Ave New Haven Conn**
General Radiator Co P O Box 658 Mt Vernon Ill
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
**LONG MFG DIV BORG-WARNER CORP 12501 Duquindre St Detroit 12 Mich**
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Modine Mfg Co 1500 De Koven Ave Racine Wis
Paragon Auto Radiator Corp 51 Rutledge St Brooklyn 11 N Y
Perfex Corp 500 W Oklahoma Ave Milwaukee 7 Wis
Yates-American Machine Co Beloit Wis
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

## RADIO ACCESSORIES (Auto)

Antenna Specialists Co 12435 Euclid Ave Cleveland 6 Ohio "Baseball"
Casco Products Corp 512 Hancock Ave Bridgeport 2 Conn (Antennas)
Continental-Wirt Electronics Corp 26 W Queen Lane Philadelphia 44 Pa (Suppressors resistors and condensers)
Croname Inc 6201 Howard St Chicago 48 Ill "Crol'lex" (Remote control tuning devices)
Diamond Mfg 243 W Eighth St Wyoming Pa (Speaker grilles)
Electro Products Laboratories Inc 4501 N Ravenswood Ave Chicago 40 Ill (Low voltage DC power supply)
Gonset Div Young Spring & Wire Corp 801 S Main St Burbank Calif (Tuners and antennas)
Gurian & Co Edward E 2211 S State St Chicago 16 Ill (Rear speaker kits switch assemblies volume controls grilles)
**HUGHES SEMICONDUCTOR DIV 500 Superior Ave Newport Beach Calif**
J F D Mfg Co 6101 16th Ave Brooklyn 4 N Y (Aerials)
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind "Midgetrol" "Uni-Shaft" "Gem" (Vibrators capacitors and volume controls and switches)
Motorola Inc 4545 W Augusta Blvd Chicago 51 Ill
Nemco-Speedex Mfg Co Div of GC-Textron Inc 418 S Wyman St Rockford Ill (Antennas condensers suppressors and rear deck speaker kits)
Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio "Ohlohm" (Suppressors and resistors)
Oxford Components Div Oxford Electric Corp 556 W Monroe St Chicago 6 Ill "Oxford" "Satellite" (Rear deck speaker kits)
Pioneer Specialty Co 6537 Russell St Detroit 11 Mich (Electric and vacuum antennas)
Potter & Brumfield Div of American Machine & Foundry Co Princeton Ind (Relays)
Radio Condenser Co Copewood & Davis Sts Camden N J "RCC" (Radio tuners)
Sprague Electric Co 344 Marshall St North Adams Mass (Filters)
Stackpole Carbon Co Stackpole St St Mary's Pa (Resistors)
Star Antenna Co 1770 Lakeview Ave East Cleveland O "Meteor" "Star" "Two-Star"
Tenna Mfg Co 7580 Garfield Blvd Cleveland 25 Ohio (Aerials)
Tung-Sol Electric Inc 1 Summer Ave Newark 4 N J (Tubes)
Unity Mfg Co 2909 Indiana Ave Chicago 16 Ill (Aerials)
Ward Products Corp Edson St Amsterdam N Y (Aerials)

## RADIO RECEIVING SETS, Auto, Truck and Tractor

American Television & Radio Co 300 E Fourth St St Paul 1 Minn "ATR Karadio"
Automatic Radio Mfg Co 122 Brookline Ave Boston Mass
Bendix Radio Div Bendix Corp E Joppa Rd Towson 4 Md (Custom built only)
Delco Radio Div 700 E Firmin St General Motors Corp Kokomo Ind
Motorola Inc 4545 W Augusta Blvd Chicago 51 Ill
Stromberg-Carlson Div of General Dynamics Corp 100 Carlson Rd Rochester 3 N Y "S-C"
Sylvania Electric Products Inc Lighting Div 60 Boston St Salem Mass

## RADIOS, Two-Way (Bus, Truck, Taxi, Auto, Etc.)

Aeronautical Electronics Inc P O Box 6527 Raleigh N C "Aerotron" "Taxi-Phon" (Taxi)
Bendix Radio Div Bendix Corp E Joppa Rd Towson 4 Md
Communications Co 300 Greco Ave Coral Gables 34 Fla "Comco"
Du Mont Laboratories Inc Allen B 750 Bloomfield Ave Clifton N J
General Electric Co Communication Products Dept Lynchburg Va
International Telephone & Telegraph Corp Industrial Products Div 15191 Bledsoe St San Fernando Calif "AutoFone"
Kaar Engrg Corp 2995 Middlefield Rd Palo Alto Calif (Auto and truck)
Motorola Inc 4545 W Augusta Blvd Chicaog 51 Ill
Radio Corp of America Mobile Communications Dept Camden N J "RCA Carfone" (For fleet owners)

## RAILS, Robe or Coat

**(Metal rails or leather or fabric straps for attaching to back or front seats)**
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y

## RAILS, Rub (Pressed Steel)

**(For trucks, trailers and buses)**
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Cutler Metal Products Co 1025 Line St Camden N J
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa

## RAMPS, Truck Loading

Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich (Dockboards)
Bustin Steel Products Inc Dover N J "Bustin Firm Grip"
Cemco Industries Inc Galion Ohio (Hydraulic)
Freightliner Corp 5400 N Basin Ave Portland 17 Ore "Aero-Board" (Air operated)
Gentry Body & Trailer Co N Fourth St Chickasha Okla
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa (Hydraulic and dock leveling)
Hamilton Tool Co Ninth & Hanover Sts Hamilton Ohio "Portelvator"
Hartman Metal Fabricators Inc Waterloo N Y "Power Dock" (Electro mechanical)
Herman Co Karl A 412 Fuller St N E Grand Rapids Mich "Herco" (4 way adjustable)
Loomis Machine Co 133 E Fourth St Clare Mich "Rite-Hite" (Adjustable)
Magline Inc 952 Murray Rd Pinconning Mich "Magliner" (Dockboards and mobile ramps)
Magnesium Co of America 155 S E Tenth Ave Hileah Fla "Magcoa"
Raymond Corp 151 Madison St Greene N Y
Revolvator Co 2026 86th St North Bergen N J "Make-It-Evener" (Hydraulic)
Rotary Lift Co 1054 Kansas St Memphis 2 Ten "Leva-Docks"

**RASPS—See Files and Rasps**

**RAYON YARN—See Yarn, Rayon**

**REAMERS, Chucking — See Reamers, Machine**

## REAMERS, Machine

Barber-Colman Co 1300 Rock St Rockford Ill
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
Gammons-Hoaglund Co 395 Main St Manchester Conn
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich
Jarvis Corp Middletown Conn
Lee Co K O Congress at First Ave S E Aberdeen S D (Expansion)
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
McCrosky Tool Corp S Main St Meadville Pa "Super"
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
National Twist Drill & Tool Co Rochester Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Robinson Mfg Co 13th & Indiana Ave St Charles Ill
Reiff & Nestor Co Lykens Pa
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Red Shield"
Twentieth Century Mfg Co Route 176 & Bradley Rd Libertyville Ill "Superam"
United States Electrical Tool Co 3620 Lieweyln St Cincinnati 23 Ohio "U S"

## REAMERS, Portable Electric

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP" "Universa'"**
Ingersoll-Rand Co 11 Broadway New York 4 N Y

## REAMERS, Portable Pneumatic

Airetool Mfg Co 302 S Center St Springfield Ohio
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**
Ingersoll-Rand Co 11 Broadway New York 4 N Y

**REAMERS, POWER DRIVE — See Reamers, Machine**

## REAMERS (Solid, Expansion and Adjustable)

Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich (Solid)
Avildsen Inc 322 S Green St Chicago Ill
Barber-Colman Co 1300 Rock St Rockford Ill (Solid and adjustable)
Beard Tool Co L O Andrew & Mill Sts Lancaster Pa (Solid and adjustable)
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Chadwick & Trefethen 32 Bow St Portsmouth N H "Critchley" "C & T"

Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (Expansion)
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio "Quick-Set" "Peerless" "Spirex"
Cornwell Quality Tools Co Magadore Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill (Solid and expansion)
Everard Tap & Die Corp 215 E 144th St N Y 51 N Y (Solid and adjustable)
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich (Expansion)
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich
Greenfield Tap & Die Div United-Greenfield Corp Sanderson St Greenfield Mass "GTD-Ampco" (Solid and expansion)
Heller Tool Co Heller Dr Newcomerstown Ohio (Chucking)
Hill Nut Co 2620 W Flourney St Chicago 12 Ill
Illinois Tool Works Tool & Instrument Div 2501 N Keeler Ave Chicago 39 Ill "Illinite"
Jarvis Corp Middletown Conn (Solid)
Keystone Reamer & Tool Co Millersburg Pa
Lee Co K O Congress at First Ave S E Aberdeen S D (Expansion)
Lempco Products Inc 5490 Durham Rd Bedford Ohio (Adjustable)
McCrosky Tool Corp S Main St Meadville Pa "Super" (Adjustable)
Madison Industries Inc P O Box 1137 Providence 1 R I (Adjustable)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass (Adjustable)
Muskegon Tool Industries Inc 11th & Western Aves Muskegon Mich "MTI"
National Machine & Tool Co 4077 Page Ave Jackson Mich
National Twist Drill & Tool Co Rochester Mich (Solid)
New Britain Machine Co Hand Tool Div South St New Britain Conn "Blackhawk" & "New Britain"
O K Tool Co Milford N H (Adjustable)
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Production Tool Co of America 6474 Le Grand Ave Detroit 11 Mich
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Robinson Mfg Co 13th & Indiana Ave St Charles Ill (Expansion; also solid valve guide)
Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Red Shield"
Staples Tool Co 2352 Glendale-Milford Rd Cincinnati 15 Ohio
Star Cutter Co 34500 Grand River Ave Farmington Mich "Starbore"
Tomkins-Johnson Co 2425 W Michigan Ave Jackson Mich "T-J" (Solid with interchangeable heads)
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass
Union Twist Drill Co Butterfield Div Derby Line Vt "Butterfield" (Solid and expansion)
Vaco Products Co 317 E Ontario St Chicago 11 Ill
Vermont Tap & Die Corp Main & Grove Sts Lyndonville Vt (Solid)
Watervliet Tool Co 413 N Pearl St Albany 1 N Y
Waukesha Cutting Tools Inc Midland & Pearl Sts Waukesha Wis
Wendt-Sonis Co Hannibal Mo "W-S" (Solid carbide tipped)
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich (Solid)
Wetmore Reamer Co 420 N 27th St Milwaukee 8 Wis (Adjustable)
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich "Hercules" (Solid and expansion)
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman-Brown" (Adjustable floating)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich
Wilson Inc K R Arcade N Y "KRW"
Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich

**REAMING BUSHINGS—See Bushings, Jig**

**RECIPROCATING TOOLS, FLEXIBLE SHAFT—See Tools, Reciprocating (Flexible Shaft)**

## RECLAIMERS, Cutting Oil

American Machine & Metals Inc Tolhurst Centrifugal Div East Moline Ill "Tolhurst"
Barnes Drill Co 826 Chestnut St Rockford Ill
Barrett Co Leon J 1477 Grafton St Worcester Mass (Centrifugal)
De Laval Separator Co Poughkeepsie N Y
Hilliard Corp 113 W Fourth St Elmira N Y "Hilco"
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
United States Hoffman Machinery Corp Industrial Filtration Div 103 Fourth Ave N Y 3 N Y "Hoffman"

## RECORDERS, Production (Machinery)

Service Recorder Co 1013 Rockwell Ave Cleveland 14 Ohio "Service Recorder"

## RECORDERS, Vehicle Movement

**(For recording time vehicle is used)**
**(See also Meters, Engine Hour (Truck)**

Engler Instrument Co 250 Culver Ave Jersey City 5 N J
Sangamo Electric Co Converse & N 10th Sts Springfield Ill "Sangamo Tachograph"
Service Recorder Co 1013 Rockwell Ave Cleveland 14 Ohio "Servis"
United States Taximeter Co 514 W 54th St New York 19 N Y "Ustclock" "Ustocograph" "Ustcometers"
**WAGNER ELECTRIC CO 6400 Plymouth Ave St Louis 33 Mo "Sangamo Tacograph" (Sole distributors for Sangamo Electric Co Springfield Ill)**

**RECORDING SYSTEMS (Oscillographic)—See Systems, Recording (Oscillographic)**

## RECTIFIERS, AC-DC Charging System (Auto)

Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio

## RECTIFIERS, Alternator (Auto)

**HUGHES SEMICONDUCTOR DIV 500 Superior Ave Newport Beach Calif**

**RECTIFIERS, OIL—See Filters, Oil (For Attaching to Engine)**

**RECTIFIERS, Plating—See Machines, Plating**

## REDUCERS, Speed

Abart Gear & Machine Co 4832 W 16th St Chicago 50 Ill
Alten Foundry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio
American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa "Shaft-King"
Bethlehem Steel Co Bethlehem Pa
Boston Gear Works Div Murray Co of Texas Inc 14 Hayward St Quincy 71 Mass "Reductor" "Optimount"
Brad Foote Gear Works Inc 1309 S Cicero Ave Cicero 50 Ill
Braden Winch Div of Motor Products Corp Box 547 Broken Arrow Okla
Brady Conveyors Corp 4244 Dempster St Skokie Ill
**CLEVELAND WORM & GEAR DIV EATON MFG CO 3300 E 80th St Cleveland 4 Ohio "Cleveland" "Speedaire"**
Cotta Transmission Co 2340 11th St Rockford Ill
Dodge Mfg Corp 500 Main St Mishawaka Ind "Torque-Arm"
Electric Motor Corp Div of Howard Industries Inc 1760 State St Racine Wis
Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill
Falk Corp Box 492 Milwaukee 1 Wis
Farrel-Birmingham Co 97 Main St Ansonia Conn
Federal Seal & Gear Corp 522 N Krueger St Kendallville Ind
Foote Bros Gear & Machine Corp 4545 S Western Blvd Chicago 9 Ill "Line-O-Power" "Hygrade" "Maxipower"; "Vari-Mount" (Variable)
Funk Mfg Co 1211 W 12th St Coffeyville Kans
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Jones Machinery Div Hewitt-Robins Inc 4401 Roosevelt Rd Chicago 24 Ill
Lima Electric Motor Co Findlay Rd Lima Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Lovejoy Flexible Coupling Co 5000 W Lake St Chicago 44 Ill
**MICHIGAN TOOL CO CONE DRIVE DIV 7171 McNicholas Rd E Detroit 12 Mich "Cone-Drive"**
**MORSE CHAIN CO Ithaca N Y "Eberhardt-Denver"**
Ohio Gear Co 1333 E 179th St Cleveland 10 Ohio
Philadelphia Gear Corp King of Prussia Pa
Rampe Mfg Co 14915 Woodworth Ave Cleveland 10 Ohio
Rockford Clutch Div Borg Warner Corp 1319 18th Ave Rockford Ill
Stephens-Adamson Mfg Co 150 Ridgeway St Aurora Ill "Saco"
Sterling Electric Motors Inc 5401 Telegraph Rd Los Angeles 22 Calif "MultiMount"
Timing Gears Corp 2801 W Fulton St Chicago 12 Ill "Cy-lent" (Worm gear)
Tulsa Winch Div of Vickers Inc 815 E First St Tulsa 20 Okla
Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y
Winsmith Inc Eaton St Springville N Y
Zero-Max Co 1900 Lyndale Ave S Minneapolis 5 Minn

## REELS, Coiled Stock (For Presses)

Cooper Weymouth Inc 600 Honeyspot Rd Stratford Conn
**LITTELL MACHINE CO F J 4101 N Ravenswood Ave Chicago 13 Ill**
Nilson Machine Co A H Bridgeport Ave Shelton Conn
Sesco Inc 8881 Central Ave Detroit 4 Mich
Special Engrg Service Inc 7630 Wyoming Ave Dearborn Mich "Ses-Matic"
Tishken Products Co 13000 W Eight Mile Rd Detroit 37 Mich
U S Tool Co 255 N 18th St Ampere (East Orange) N J
Wittek Mfg Co 4305 W 24th Pl Chicago 23 Ill

## REELS, Lamp (Automatic Extension)

Aero-Motive Mfg Co 1803 Alcott St Kalamazoo 24 Mich "Zoo"
Appleton Electric Co 1701 Wellington Ave Chicago 13 Ill "Reelite"
Benjamin Reel Products Inc 10700 Broadway Cleveland 25 Ohio
Black Mfg Co M 300 N Third St Philadelphia 6 Pa "Reelectric"
Cordomatic Div of Vacuum Cleaner Corp of America 1724 W Indiana Ave Philadelphia 32 Pa "Cordomatic"

## REFLECTORS, Safety

**(For attaching to cars and trucks)**

Anthes Force Oiler Co 20th St & Ave M Ft Madison Iowa
Arrow Safety Device Co Mt Holly N J "Arrowlite"
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Alco" (For trucks)
Bolser Corp S Main St Cedar Falls Iowa (For trucks)
Brown Co E C Canandaigua N Y "Hi-Beem"
Cole Automotive Products Co P O Box 56 Alfred St Station Detroit 1 Mich (For trucks trailers and buses)
Columbus Metal Products Co 1341 Norton Ave Columbus 8 Ohio "Catseye"
Dietz Co R E 225 Wilkinson St Syracuse 1 N Y (For trucks)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Tiger Ey"
Electroline Mfg Co 2622 E 51st St Cleveland 4 Ohio
Griffin Lamp Shelby Miss
Grote Mfg Co State Route 7 Madison Ind
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Gulotta Co Charles 81-20 Cooper Ave Glendale 27 N Y
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio (Truck)**
King-Bee Mfg Co 2600 Washington Blvd Bellwood Ill
**MIRO-FLEX CO 1824 E 2nd St Wichita 7 Kans**
Norlipp Co 5925 S Lowe Ave Chicago 21 Ill (For trucks)
Persons-Majestic Mfg Co 54 Commercial St Worcester Mass
Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo "PMCO" (For cars trucks and trailers)
S & M Lamp Co 2369 E 51st St Los Angeles 54 Calif
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y (For trucks)
Sparton Automotive Div of Sparton Corp Jackson Mich (Red and amber for trucks)
Speaker Corp J W 3059 N Weil St Milwaukee Wis
Stimsonite Div of Elastic Stop Nut Corp of America 3445 N Kimball Ave Chicago 18 Ill
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Bus truck and trailer)

## REFLECTORS, Safety

(For road use)

**MIRO-FLEX CO 1824 E 2nd St Wichita 7 Kans**

## REFRIGERANTS, Air Conditioning (Auto and Truck)

du Pont de Nemours & Co E I Organic Chemicals Dept Freon Products Div Wilmington 98 Del "Freon"
Eston Chemicals Div American Potash & Chemicals Corp 3100 E 26th St Los Angeles 23 Calif "Charg-A-Can"
Pure Carbonic Co 150 E 42nd St N Y 1 N Y "Pureco" (Carbon dioxide dry ice for trucks)
Union Carbide Consumer Products Co 270 Park Ave N Y 17 N Y "Prestone"

## REFRIGERATING UNITS, Truck and Trailer

Air Induciton Corp 122 W 30th St New York 1 N Y
Aluminum Body Corp 1600 W Washington Blvd Montebello Calif
American Mfg Co P O Box 989 Montgomery 2 Ala "Arctic Traveler" (Gasoline hydraulic and electric driven)
Brunner Div Dunham-Bush Inc 179 South St West Hartford 10 Conn
Carrier Corp Carrier Parkway Syracuse 1 N Y
Copeland Refrigerator Corp Short Clinton St Sidney Ohio
Dole Refrigerating Co 5962 N Pulaski Rd Chicago 46 Ill "Lecktro-Cel"
Frank-Dewey Co 6481 Epworth St Detroit 10 Mich "Rovan" (Electric)
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y
Hunter Mfg Co 30525 Aurora Rd Solon Ohio "Hunter Cargo Cooler" (Mechanical for trucks)
Keco Industries Inc 2438 Beekman St Cincinnati 14 Ohio (Trailer)
Kold Hold Div of Tranter Mfg Inc 620 E Hazel St Lansing 4 Mich "Kold-Hold" "Kold Trux"
Lehigh Mfg Co Div of Lehigh Inc Lehigh Dr Easton Pa "Lehigh Blu-Cold"
Meyer Body Co 218 Elm St Buffalo 3 N Y
Summer Industries Inc Summer Iowa "Tru Kooler"
Tecumseh Products Co Tecumseh Mich
Thermo King Corp 314 W 90th St Minneapolis 20 Minn
Theurer Wagon Works Inc 601 W 56th St New York 19 N Y
Transportation Cooling Div McGraw Edison Co 5201 W 65th St Chicago 38 Ill "Coldmobile" "TropicAire" "TropicAire-Coldmobile"
York Div of Borg-Warner Corp York Pa

**REFRIGERATION COMPRESSORS — See pressors, Refrigeration (Auto)**

**REFRIGERATION CONTROLS—See Controls, Refrigeration**

## REGULATORS, ADAPTERS, and VAPORIZERS, LP-GAS

(See also Carburetors, Butane, Propane & LP Gas)

American Liquid Gas Corp 1109 Santa Fe Ave Los Angeles 21 Calif "Algas" (Regulator)
Beam Products Mfg Co 3040 Rosslyn St Los Angeles 65 Calif
J & S Carburetor Co P O Box 10391 Dallas 7 Tex
Marvel-Schebler Products Div Borg-Warner Corp Decatur Ill (Regulators and adaptors)
Zenith Carburetor Div of Bendix Corp 696 Hart Ave Detroit 14 Mich

## REGULATORS, Air Pressure

Air Reduction Sales Co Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y
Anker-Holth Div of Wellman Engrg Co 2723 Connors St Port Huron Mich
Arc Equipment Corp Bryan Ohio
Bellows-Valvaire Div of International Basic Economy Corp 222 W Market St Akron 9 Ohio
Cleco Air Tools Div of Reed Roller Bit Co 5125 Clinton Dr Houston 1 Texas
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Gane-Master"
Gardner-Denver Co S Front St Quincy Ill
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Hanna Engrg Works 1765 Elston Ave Chicago 22 Ill
Hannifin Co 543 S Wolf Rd Des Plaines Ill "Crown"
Modernair Corp 400 Preda St San Leandro Calif
Norgren Co C A 3400 S Elati St Englewood Colo
S-P Mfg Corp 30201 Aurora Rd Solon Ohio
Schrader's Son A Div of Scoville Mfg Co 470 Vanderbilt Ave Brooklyn 38 N Y
**STEWART-WARNER CORP ALEMITE DIV 1826 Diversey Parkway Chicago 14 Ill "Alemite Tri-Duty"**
Wilkerson Corp 1601 W Girard Ave Englewood Colo "Diatrol" "Pilotrol"
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## REGULATORS, Fuel Pressure

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich "Acon-O-Mizer"**
Brisko's Mileage-Saver Inc Box 38 Ojibwa Wis
Engine Accessories Mfg Co 5801 E Beverly Blvd Los Angeles 22 Calif "Gane-Master"
Precision Automotive Components Co Manchester & Henry Sts Manchester Mo "Pacco"
Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill

## REGULATORS, Furnace (Electric)

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Leeds & Northrup Co 4966 Stenton Ave Philadelphia Pa "Micromax"

## REGULATORS, Generator Current and Voltage (Auto)

Allis-Chalmers Mfg Co Milwaukee 1 Wis (Voltage)
American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass
American Motor Products Co Fond du Lac Wis "Ampco"
Arrow Armatures Co 15 Fordham Rd Boston 34 Mass
Blackstone Mfg Co Stan-Test Div 4630 W Harrison St Chicago 44 Ill "K-W"
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Djeco Div of Djordjevic Engrg Co 1933 N Damen St Chicago 47 Ill
Echlin Mfg Co U S Route 1 Branford Conn
Electra Mfg Co 4051 Broadway Kansas City Mo (Auto and tractor)
Electric Autolite Co Toledo 1 Ohio "Autolite" (Voltage)
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Guaranteed Parts Co Seneca Falls N Y
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich (Voltage)
Illinois Accessories Co 317 E Ontario St Chicago 11 Ill "Illaco"
International Products & Mfg Co 850 N Ogden Ave Chicago 22 Ill
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
King-Seeley Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S"
Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio
M D Parts Mfg Co 5247 Coffmann-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorenson Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak"
Switches Inc 317 E Ontario St Chicago 1 Ill
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## REGULATORS, Humidity

Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave Newark 12 N J
Minneapolis-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa
Powers Regulator Co 3400 Oakton St Skokie Ill

## REGULATORS, Oil Temperature (Engine)

G & O Mfg Co 138 Winchester Ave New Haven Conn
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
Powers Regulator Co 3400 Oakton St Skokie Ill
Yates-American Machine Co Beloit Wis
**YOUNG RADIATOR CO 709 S Marquette St Racine Wis**

**REGULATORS, SEAT—See Adjusters, Driver's Seat**

## REGULATORS, Speed (Electric Motor)

General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"

## REGULATORS, Temperature

Barber-Colman Co 1300 Rock St Rockford Ill
Central Scientific Co 1700 Irving Park Road Chicago 13 Ill "Cenco"
Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave Newark 12 N J
Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1 Tenn "Sylphon"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Johnston Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Leeds & Northrup Co 4966 Stenton Ave Philadelphia Pa "Micromax"
Manning Maxwell & Moore Inc Gage Instrument & Valve Div Stratford Conn "American"
Powers Regulator Co 3400 Oakton St Skokie Ill
Ruggles-Klingemann Mfg Co Foster Court Salem Mass "R-K"
Sarco Co 635 Madison Ave New York 22 N Y
Taylor Instrument Companies 95 Ames St Rochester 1 N Y

## REGULATORS, Top

Dura Corp Dura Div 4500 Detroit Ave Toledo 12 Ohio (Electric for convertibles)
Jacobs Co F L 1043 Spruce St Detroit 32 Mich (Electric)
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif (Hydraulic and electric)

**REGULATORS, WATER CIRCULATING — See Thermostats, Water Circulating**

## REGULATORS, Window

Ainsworth Mfg Co Div of Precasco Corp 7635 E Davison St Detroit 12 Mich
Dura Co Dura Div 4500 Detroit Ave Toledo 12 Ohio (Manual and electric)
Electric Autolite Co Toledo 1 Ohio "Autolite"
Ferro Stamping Co 1367 Franklin St Detroit 7 Mich (Manual and electric)
Hancock Mfg Co 225 N Horton St Jackson Mich
Hansen Mfg Co A L 5037 Ravenswood Ave Chicago 40 Ill (Commercial body)
Preferred Electric & Wire Co Bush Terminal Bldg #8 Brooklyn 32 N Y
Trico Products Corp 817 Washington St Buffalo 3 N Y "Lift-O-Maite" "Vent-O-Matic" (Vacuum operated)
Varco Products 1017 E Washington Blvd Los Angeles 21 Calif (Hydraulic and electric)

## RELAYS, Horn and Light

American Motor Products Co Fond du Lac Wis
Blackstone Mfg Co Stan-Test Div 4630 W Harrison St Chicago 44 Ill "K-W"
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Echlin Mfg Co U S Route 1 Branford Conn
Electric Autolite Co Toledo 1 Ohio
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko"
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
Guaranteed Parts Co Seneca Falls N Y
Jubilee Mfg Co 1929 S 20th St Omaha 9 Neb (Horn)
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
New York Coil Co 42 Second Ave Phoenixville Pa "Nyco"

Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass (Horn)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Sorensen Mfg Co 32-31 57th St Woodside 77 N Y
Sparton Automotive Div of Sparton Corp Jackson Mich (Horn)
Standard Motor Products Inc 37-18 Northern Blvd Long Island City 1 L I N Y "Blue Streak"
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Ward Leonard Electric Co 37 South St Mt Vernon N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## RELAYS, Overload

Assembly Products Inc 75 Wilson Mill Rd Chesterland 80 Ohio (Adjustable)
General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
Westinghouse Electcric Corp Standard Control Div Beaver Pa (Factory)

## RELAYS, Starting Motor

R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind

## RELAYS, Switching (Machine Tool)

Potter & Brunfield Div of American Machine & Foundry Co Princeton Ind

**REMOVERS, OIL AND GREASE—See Solvents, Oil and Grease Removing**

## REMOVERS, Paint, Enamel and Varnish

**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Detrex" "Triad"**
**DOW CHEMICAL CO Midland Mich**
**OAKITE PRODUCTS INC 19 Rector St N Y 6 N Y**

**RESINS, MOLDED AND CAST—See under PLASTICS**

## RESINS, Shell Molding (For Castings)

Reichhold Chemicals Inc RCI Bldg White Plains N Y "Foundrez"

## RESINS, Synthetic (For Bonding, Impregnating, Laminating and Protective Coating)

**(See also Adhesives; also Rubber, Synthetic)**

American Cyanamid Co Plastics & Resins Div 30 Rockefeller Plaza New York N Y "Beetle" "Cycopol" "Cymel" "Cyzac" "Cyagua" "Melaqua" "Laminac" "Melurac" "Rezyl" "Urac"
American Nickeloid Co Peru 34 Ill "Bakekote (Protective coating)
Borden Chemical Co Div of Borden Co 350 Madison Ave N Y 17 N Y
Ciba Products Corp Fair Lawn N J "Araldite"
Dow Chemical Co Midland Mich (Epoxy)
**DOW CORNING CORP Midland Mich (Silicone for bonding impregnating and laminating)**
Durez Plastics Div Hooker Chemical Corp 1910 Walck Rd North Tonawanda N Y "Durez"; "Hetron" (Fire resistant for laminating and molded parts)
Firestone Rubber & Latex Products Co Fall River Mass
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Goodyear Tire & Rubber Co Chemical Div E Market St Akron 16 Ohio "Pliobond" "Pliolite" "PlioTuf"
Kish Industries Inc 1301 N Turner St Lansing 6 Mich (Epoxy)
Marbon Chemical Div Borg-Warner Corp Box 68 Washington W Va (Protective coatings)
Masland Duraleather Co Amber & Willard Sts Philadelphia 34 Pa
Minnesota Mining & Mfg Co 900 Fauquier St St Paul 6 Minn "3-M"
Monsanto Chemical Co Plastic Div Springfield 2 Mass "Resinox" "Resimene," "Opalon"
National Adhesives Div of National Starch & Chemical Corp 750 Third Ave N Y 17 N Y
Naugatuck Chemical Div U S Rubber Co Elm St Naugatuck Conn "Vibrin" (Polyester resin for laminating)
Plastics & Resins Sales Plastic & Coal Chemicals Div Allied Chemical Corp 40 Rector St N Y 6 N Y "Plaskon" (Phenolic and polyesters; also urea melamine alkyd and hard resins for coatings)
Raybestos Div of Raybestos-Manhattan Inc 75 E Main St Stratford 2 Conn
**RAYBESTOS-MANHATTAN INC EQUIPMENT SALES DIV P O Box 1021 Bridgeport Conn "Pyroloy"**
Reichhold Chemical Inc RCI Bldg White Plains N Y "Polyphen" "Beckosol" "Epstuf" "Polylite"
Rezolin Inc 1651 18th St Santa Monica Calif
Rohm & Haas Co 222 W Washington Sq Philadelphia 5 Pa ("Acryloid" "Amberol" "Duraplex" "Paraplex" "Uformite" Protective coating "Amberlite" "Uformite" plywood bonding)
Schenectady Varnish Co Congress & Ninth Sts Schenectady 1 N Y
Shawinigan Resins Corp 644 Monsanto Ave Springfield 1 Mass "Butvar" (Polyvinyl butyral; "Gelva" polyvinyl acetate; "Formvar" polyvinyl formal; "Gelvatol" polyvinyl alcohol)
Silicones Div Union Carbide Corp 270 Park Ave N Y 17 N Y "Union Carbide"
UBS Chemical Co 491 Main St Cambridge Mass "Ubatol" "Unibac" "Hycryl"
Union Carbide Plastics Co Div of Union Carbon Corp 30 E 42nd St N Y 17 N Y "Bakelite"

## RESISTORS, Ignition

Carter Parts Co 3401 W Madison St Skokie Ill
Delco-Remy Div General Motors Corp 2401 Columbus Ave Anderson Ind
Mallory & Co P R 3029 E Washington St Indianapolis 6 Ind
Preferred Electric & Wire Co Bush Terminal Bldg #8 Brooklyn 32 N Y

## RESTS, Arm

Automotive Industries Inc Owendale Mich
Davidson Rubber Co Dover N H
Goodrich Sponge Products B F Howe Ave Shelton Conn "Spongex"
Sponge Aire Seat Co 166 Chandler St Buffalo 7 N Y (Sponge rubber)

## RETAINERS, Ball

Aetna Ball & Roller Bearing Co Div of Parkersburg-Aetna Corp 4600 Schubert Ave Chicago 39 Ill
Crosby Co 183 Pratt St Buffalo 5 N Y
Hartford Steel Ball Co Drawer "Q" Sta A Hartford 6 Conn
National Bearing Co Flory Mill Rd & Manheim Pike 637 Lancaster Ave Lancaster Pa
Nice Ball Bearing Co 30th St & Hunting Park Ave Philadelphia 40 Pa

## RETAINERS, Headlining

Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio

## RETAINERS, Nut

Palnut Co 60-A Glen Rd Mountainside N J "Pushnut"
Tinnerman Products Inc 8700 Brookpart Rd Cleveland Ohio "Speed Grips"

**RETAINERS, OIL AND GREASE—See Rings and Seals, Oil and Grease Retaining**

## RETAINERS, Rod

**PALNUT CO 60-A Glen Rd Mountainside N J "Pushnut"**

## RETAINERS, Valve Spring

**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill**
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog"
**THOMPSON PRODUCTS VALVE DIV THOMPSON-RAMO-WOOLDRIDGE INC 1455 E 185th St Cleveland 10 Ohio**
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

## RETARDERS, Hydraulic (Truck and Bus)

Parkersburg Rig & Reel Co 4801 Richmond Ave Houston 27 Tex
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich


ask Oakite

There's a wide selection of Oakite strippers designed to remove any type of paint from any kind of metal, under any condition of application. To name a few:

**Oakite Stripper M-3:** removes a wide variety of oil base paints from steel.

**Oakite Rustripper:** not only strips paint . . . its chelating action swiftly removes pigment residues, phosphate undercoatings and rust.

**Oakite Stripper S-A:** strips the toughest synthetic paints in minutes—even the "impossible-to-remove" types.

And a host of other solvent, acid and alkaline strippers and additives. Ask Oakite to recommend the one stripper that's best for your paint-removal set ups or send for literature that can help you solve any of your paint-stripping problems.

***THEN, WHEN THE METAL'S LAID BARE...***

give it the best under-paint protection with a pre-paint application of Oakite CrysCoat for steel or Oakite Chromi-Coat conversion coatings for aluminum. See the Oakite ad under Compounds, paint bonding, or ask Oakite for details. Oakite Products, Inc., 228A Rector Street, New York 6, N. Y.

OAKITE
over 50 years' leadership in industrial cleaning
Est. 1909
SCIENCE

Circle 179 on Inquiry Card for more data

**REVOLUTION COUNTERS — See Counters, Revolution (Machinery)**

## RIMS, Wheel (Truck and Bus)

Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa
Cleveland Welding Div American Machine & Fdry Co W 117th St & Berea Rd Cleveland 11 Ohio "Cleve-Weld" (Truck tractor and trailer)
Firestone Steel Products Co 1600 Firestone Parkway Akron 1 Ohio (Truck and bus)
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio (Bus and truck)
Kelsey-Hayes Co 3600 Military Ave Detroit 32, Mich
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich

**RING GAGES—See Gages, Plug and Ring**

**RING GEARS — See Gears, Flywheel Ring; also Gears and Pinions, Rear Axle**

## RINGS, Piston

Ace Products Co 1820 N 12th St Toledo 1 Ohio "Welco"
American Hammered Automotive Replacement Div of Sealed Power Corp 2001 Sanford St Muskegon Mich
Burd Piston Ring Co Box 567 Eau Claire Wis 'Burd Graf-Flox' (Automotive and industrial)
Double Seal Ring Co 2065 Montgomery St Ft Worth 7 Tex (Industrial)
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Hastings Mfg Co N Hanover St Hastings Mich
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Koppers Co Metal Products Div 200 Scott St Baltimore 3 Md "American Hammered" (Industrial)
Lion Auto Parts & Mfg Co 1920 S Michigan Ave Chicago 16 Ill "Hico"
**McQUAY-NORRIS MFG CO 2320 Marconi St St Louis 10 Mo "Leak Proof"**
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Muskegon Piston Ring Co Muskegon Div Sixth & Alpha Sts Muskegon Mich
Pacific Piston Ring Co 1410 S Los Angeles St Los Angeles 15 Calif
**PERFECT CIRCLE CORP 552 S Washington St Hagerstown Ind**
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco"
Richmond Ring Co Souderton Pa
**SEALED POWER CORP 2001 Sanford St Muskegon Heights Mich**
Simplex Piston Ring Mfg Co 12301 Bennington Ave Cleveland 11 Ohio
Steel-Bronze Sealing Rings Co 540 S Meridian St Indianapolis 25 Ind "Non-Breakable"
**THOMPSON PRODUCTS RAMCO DIV THOMPSON-RAMO-WOOLDRIDGE INC P O Box 513 St Louis 66 Mo "U-Flex" "T-Flex" "Z-Flex"**
**WAUSAU MOTOR PARTS CO P O Box 318 Schofield Wis "Wausau" "Super Sav-Oil" "Oil Savr" "Super Portoil" "XX Super Portoil" "HT-100" "Monotized OilSavr"**
White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"
**WILKENING MFG CO 2000 S 71st St Philadelphia 42 Pa "Pedrick"**

## RINGS, Piston (Castings for Same)

Campbell Wyant & Cannon Foundry Co Muskegon Mich
Sparta Foundry Co Div of Muskegon Piston Ring Co Sparta Mich "Spartaloy" (Gray iron)

**RINGS, PUMP (OIL SEALING)—See Rings and Seals, Oil & Grease Retaining**

## RINGS, Retaining, Snap and Spacer

Automatic Spring Coiling Co 4045 W Thorndale Ave Chicago 46 Ill (Snap)
Bender Equipment Co J H 5430 Tweedy Blvd South Gate Calif
Burd Piston Ring Co Box 567 Eau Claire Wis "Graf-Flox"
Butcher & Hart Mfg Co 4601 Cortland Ave Altoona Pa (Steel)
**EATON MFG CO RELIANCE DIV 25 Charles Ave S E Massillon Ohio "Reliance"**
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill "Plasti-Rings'
Industrial Retaining Ring Co 57 Cordier St Irvington 11 N J (Retaining)
National Lock Washer Co 40 Hermon St Newark 5 N J (Retaining)
Perfect Circle Corp 552 S Washington St Hagerstown Ind (Spacer)
Perfect Equipment Corp 804 W Morgan St Kokomo Ind (Coil spacer)
Standard Supply Co 5920 Bryant St Pittsburgh 6 Pa (Coil spring spacer)
Steel-Bronze Sealing Rings Co 540 S Meridian St Indianapolis 25 Ind "Non-Breakable"
Thompson Products Ramco Div Thompson-Ramo-Wooldridge Inc P O Box 513 St Louis 66 Mo "Circolox" "Spirolox" (Industrial retaining)
**WALDES KOHINOOR INC 47-16 Austel Place Long Island City 1 N Y "Truarc" (Retaining)**

## RINGS, Wheel Trim

Bearfoot Airway Corp First & Water Sts Wadsworth Ohio "Thrif-Trim" "Rim Trim" "Bearfoot Mark V" "BF Port-A-Wall" (White rubber)
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa (White rubber)
Kraco Products Inc 2411 N Santa Fe Ave Compton Calif "Crown Wall" "Custom Wall" "Supreme Wall" (White rubber)
Lyon Inc 13881 W Chicago Blvd Detroit 28 Mich (Stainless steel; also white enameled)
Namsco Inc 333 31st Ave Bellwood Ill "National"

## RINGS AND SEALS, Oil and Grease Retaining

Acadia Div Western Felt Works 4115 Ogden Ave Chicago 23 Ill "Acadiaseal" (Synthetic rubber; "Acadia Resistofelt" synthetic rubber and felt)
Acushnet Process Co Rubber Div 754 Belleview Ave (Box 916) New Bedford Mass
Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Atlas Asbestos Co 469 Walnut St North Wales Pa (Crankshaft rear bearing oil seals)
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y (Felt)
Brummer Seal Co 1320 McKinley Ave Chicago Heights Ill (Water pump and rear main bearing oil seals)
Burgess Leather Co A E Brigham Hill Rd Grafton Mass "Grafton"
Cartriseal Corp 3515 W Touhy Ave Lincolnwood Ill
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "C/R Scotseal"**
Crane Packing Co 6435 Oakton St Morton Grove Ill "John Crane"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
**FITZGERALD MFG CO 691 Main St Torrington Conn**
**GARLOCK INC 402 Main St Palmyra N Y "Klozure"**
Gits Bros Mfg Co 1846 S Kilbourn Ave Chicago 23 Ill
Graphite Metallizing Corp 1083 Nepperhan Ave Yonkers 3 N Y "Graphalloy"
International Packing Corp Lake St Bristol N H
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Johns-Manville 22 E 40th St New York 16 N Y "Clipper"
Kickhaefer Mfg Co 903 S 2nd St Milwaukee 4 Wis
Krug Co North St Barnum Court Danbury Conn
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Michigan Leather Products Co 6301 E Lafayette St Detroit 7 Mich "Milpaco"
Muskegon Piston Ring Co Muskegon Div Sixth & Alpha Sts Muskegon Mich
**NATIONAL SEAL DIV FEDERAL-MOGUL - BOWER BEARINGS INC Broadway at National Ave Redwood City Calif "National Syntech" "National Unitseal" "National Bud Unitized" "Micro-Tore"**
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Pure Carbon Co 441 Hall Ave St Marys Pa "Purebon"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Sealol Corp Warwick Industrial Park Providence 5 R I
Shuler Axle Co 2901 S Second St Louisville 8 Ky
Steel-Bronze Sealing Rings Co 540 S Meridian St Indianapolis 25 Ind "Non-Breakable"
Transit Parts Co 35700 Vine St Willoughby Ohio (For buses trucks and trailers)
Tri-Point Plastics Inc I U Willets Rd Albertson L I N Y (Teflon)
**TROSTEL PACKINGS LTD ALBERT 800 Madison St Lake Geneva Wis**
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y
Universal Oil-Seal Co 34 W Kennett Rd Pontiac Mich
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victoprene" "Victo-Seal"**
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill "Resistofelt" "Westemp" (Felt)**

**RINSING COMPOUNDS — See Compounds, Rinsing**

**RIVET BURRS AND WASHERS—See Washers and Burrs, Riveting Burrs**

**RIVET FORGES — See Forges, Rivet (Oil Burning)**

**RIVET SETS—See Sets, Rivet**

## RIVETS, Blind

Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio "Lok-Skru" "Lok-Rivet"
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill "Plasti-Rivet" (Plastic)
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Hi-Shear Corp 2600 W 247th St Torrance Calif "Blind Bolts"
**HUCK MFG CO 2480 Bellevue Ave Detroit 7 Mich "Huck" "Daisy" (Aluminum and steel)**
South Chester Corp Southco Div 228 Industrial Highway Lester Pa "Southco"
Star Expansion Industries Corp Mountainville N Y
United Shoe Machinery Corp Pop Rivet Div Shelton Conn "Pop"

## RIVETS, Grooved

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Driv-Lok Pin Co Park Ave & Chauncey St Sycamore Ill (Sole distributor Driv-Lok Sales Corp 777 Park Ave Sycamore Ill
Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J

## RIVETS, Tubular and Solid

Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel tubular)
**HASSALL INC JOHN P O Box 2194 Westbury L I N Y**
National Rivet & Mfg Co 21 E Jefferson St Waupun Wis
Townsend Co Engineered Fasteners Div P O Box 70 Ellwood City Pa

## RIVETS, Tubular and Split

Chicago Rivet & Machine Co 950 S 25th Ave Bellwood Ill
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite" (Tubular)
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Milford Rivet & Machine Co Post Rd Milford Conn
National Rivet & Mfg Co 21 E Jefferson St Waupun Wis
**THOMSON MFG CO Judson & Sawyer Rd Waltham Mass**
Tubular Rivet & Stud Co Weston Ave Quincy 70 Mass "Perma-Nuts" (Combination rivet and nut)

**ROAD LAMPS—See Lamps, Fog, Road and Spot**

**ROAD SPEED GOVERNORS—See Governors, Road Speed (Auto, Truck and Bus)**

**ROBE CORDS OR RAILS—See Rails, Robe or Coat**

**ROCKER ARMS—See Arms, Rocker**

**ROD CUTTERS—See Cutters, Rod and Bar**

## RODS, Connecting

**(Finished or Machined Rods; for connecting rods in the rough—see Forgings)**

Aluminum Co of America 801 Gulf Bldg Pittsburgh 19 Pa (Aluminum alloy)
Arrow Head Steel Products Co Howell Mich (Aluminum)
Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio
Continental Motors Corp Muskegon 82 Mich
Gillett & Eaton Inc 8th & Doughty Sts Lake City Minn "G & E" (Aluminum)

Niagara Motors Corps Lamphere St Dunkirk N Y
Ohio Piston & Machinery Co 11786 Superior Ave N E Cleveland 6 Ohio
Park Drop Forge Co 777 E 79th St Cleveland 3 Ohio
Parks Engineering Inc 347 E Ward St Milwaukee 7 Wis
Pioneer Motor Bearing Co Eddy St & Van Ness Ave San Francisco Calif
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

## RODS, Push (For Valve Rocker Arms)

Allied Precision Products Inc 600 San Christopher Dr Dunedin Fla
**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill**
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio
Wohlert Corp 700 E Grand River Ave Lansing 5 Mich

**RODS, STEERING—See Connections, Steering**

**RODS, VALVE LIFT—See Tappets, Valve**

## RODS, Welding

**(See also Wire, Welding)**

Acme Electric Welder Co 2618 Fruitland Ave Los Angeles 58 Calif "Acmeloy" "Hardaloy" "Stainaloy" "Superloy"
**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco"**
Allis-Chalmers Mfg Co Milwaukee 1 Wis
Alloy Rods Co W Market St York Pa "Arcaloy" "Atom-Arc" "Bronze-Arc" "Nickel-Arc" "Tool-Arc" "Wear-Arc"
All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "Monoweld" "Steelarc"
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn "Anaconda" "Tobin Bronze"
American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio "Premier"
Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis "Ampco-Trode" "Phos-Trode" (Bronze)
Atlantic Steel Co 16th & Mecaslin St Atlanta Ga
Becker Bros Carbon Co 3450 S 52nd Ave Cicero 50 Ill "BBB"
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
Colonial Alloys Co Ridge Ave & Crawford St Philadelphai 29 Pa "Colweld"
Dockson Corp 3839 Wabash Ave Detroit 8 Mich
Eutectic Welding Alloys Corp 40-40 172nd St Flushing 58 N Y "CutTrode" "Eutec-Rod" "EutecTrode" "SteelTectic" "Hand-O-Matic" "ChamferTrode" "UniMatic" "Bronzochrom" "NiTectic" "StainTrode" "Eutec-Tin Weld" "Eutec Sil-Weld"
Forney Mfg Co 1820 Laporte Ave Ft Collins Colo
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H"
Haynes Stellite Co 725 S Lindsay St Kokomo Ind "Hascrome" "Hastelloy" "Haynes Stellite" "Haynes" "Haystellite" (Hard facing)
Hobart Bros Co Canal Locks Square Troy 1, Ohio (Arc)
International Nickel Co 67 Wall St New York 5 N Y "Ni-Rod" "Inco" "Inco-Weld"
Kaiser Aluminum & Chemical Corp 300 Lakeside Dr Oakland 12 Calif
Krembs & Co 669 W Ohio St Chicago 10 Ill "Kop-R-Arc"
**LINCOLN ELECTRIC CO 22801 St Clair Ave Cleveland 17 Ohio "Stable-Arc" "Stainweld" "Manganweld" "Aluminweld" "Fleetweld" "Ferroweld" "Toolweld" "Abrasoweld" "Aerisweld" "Wearweld" "Softweld" "Faceweld" "Shield-Arc" "Planeweld" "Jetweld" "Jethard" "Manjet" "Innershield" "Lincolaweld"**
Linde Co 270 Park Ave New York 17 N Y "Oxweld"; "UnionMelt" (Coiled)
McKay Co 1005 Liberty Ave Pittsburgh 22 Pa "McKay Rod"
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind "Elkaloy" & "Fluted Electrode" (Resistance)
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn
**METAL & THERMIT CORP Rahway N J "Murex"**
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "NCG" & "Sureweld"
Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y (Copper brass and bronze)
Rexarc Inc West Alexandria Ohio
Smith Corp A O 3533 N 27th St Milwaukee 1 Wis
Speer Carbon Co St Marys Pa "A C Weld" "Hold-Ark"
Stackpole Carbon Co Stackpole St St Marys Pa (Carbon and graphite)
Wall Colmonoy Corp 19345 John R St Detroit 3 Mich "Colmonoy" "Wallex"
Welding Equipment & Supply Co 5225 E Davidson St Detroit 12 Mich "Eureka"
Westinghouse Electric Corp Welding Dept Buffalo N Y

**ROLL FORMING MACHINES—See Machines, Roll Forming**

## ROTATORS, Valve (Poppet)

Aluminum Industries Inc 3670 Wark Rd Cincinnati 11 Ohio
Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC"
**THOMPSON PRODUCTS VALVE DIV THOMPSON-RAMO-WOOLDRIDGE INC 1455 E 185th St Cleveland 10 Ohio "Rotocap" "Rotocoil" "Rotovalve"**
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

**ROUTERS, MULTIPLE FORM—See Machines, Routing**

## RUBBER, Bonded to Metal, Plastic or Silicone

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass "Apcotite" (Metal to order)
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich "Arco"
Baldwin Rubber Co 366 S Blvd E Pontiac Mich
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Castle Rubber Co East Butler Pa
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill
Clevite Harris Products Inc Lockwood Rd Milan Ohio
Connecticut Hard Rubber Co 107 East St New Haven Conn "Cohrlastic" (Metal)
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Cranz Co J M 2671 Main St Buffalo 14 N Y
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Garlock Inc 402 Main St Palmyra N Y
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio "Duolock"
Goodrich Sponge Products B F Howe Ave Shelton Conn
**GOSHEN RUBBER CO 609 E Iowa St Goshen Ind "Gorbond"**
Inland Mfg Div-General Motors Corp 2727 Inland Ave Dayton 1 Ohio
Johnson Rubber Co Middlefield Ohio
Lord Mfg Co 1635 W 12th St Erie Pa (Metal)
Mechanical Rubber Products Co Warwick N Y
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn
Monarch Rubber Co Hartville Ohio
Moxness Products Inc 1914 Indiana St Racine Wis
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio "Orco"**
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J (Metal)
Seamless Rubber Co Specialty Div 253 Hallock Ave New Haven 3 Conn
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Stillman Rubber Co 5811 Marilyn Ave Culver City Calif
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y

**RUBBER, EXTRUSIONS — See Extrusion, Rubber**

## RUBBER, Hard

**(Sheet, rod and tube)**

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace"
Garlock Inc 402 Main St Palmyra N Y
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Seamless Rubber Co Specialty Div 253 Hallock Ave New Haven 3 Conn

## RUBBER, Molded (Natural)

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass (To order)
American Rubber Products Corp 315 Brighton St La Porte Ind (Sponge)
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich
Brown Rubber Co Union St & Concord Rd Lafayette Ind (Sponge)
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn
Castle Rubber Co East Butler Pa
Chardon Rubber Co 6th & Washington Ave Chardon Ohio
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill
Cincinnati Rubber Mfg Co Franklin Ave Norwood Cincinnati 12 Ohio
Clevite Harris Products Inc Lockwood Rd Milan Ohio
Continental Rubber Works 1946 Liberty St Erie Pa
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Corduroy Rubber Co Fuller Ave & G T Tracks Grand Rapids 1 Mich
Cranz Co J M 2671 Main St Buffalo 14 N Y
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Faultless Rubber Co 268 Fourth St Ashland Ohio
Firestone Industrial Products Co Noblesville Ind
Forest City Products Inc Industrial Products Div 722 Bolivar Rd Cleveland 15 Ohio
**GARLOCK INC 402 Main St Palmyra N Y**
**GEAUGA INDUSTRIES CO Old State Rd Middlefield Ohio**
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodrich Sponge Products B F Howe Ave Shelton Conn "Spongex"
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
**GOSHEN RUBBER CO 609 E Iowa St Goshen Ind**
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Huntingdon Rubber Mills P O Box 570 Portland 7 Ore (To order)
Industrial Rubber Goods Co St Joseph Mich
Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill
Karpex Mfg Co 1436 E 19th St Indianapolis 7 Ind (Solid and sponge)
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Lee Rubber & Tire Corp Conshohocken Pa
Linear Inc State Rd & Levick St Philadelphia 35 Pa
Mechanical Rubber Products Co Warwick N Y
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio "Orco"**
Parker Seal Co 10567 Jefferson Blvd Culver City Calif (O rings)
Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif
Premier Rubber Mfg Co 1 Edmund St Dayton 1 Ohio
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Republic Rubber Div Lee Rubber & Tire Corp Albert St Youngstown 1 Ohio
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Seamless Rubber Co Specialty Div 253 Hallock Ave New Haven 3 Conn
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind
Stalwart Rubber Co 222 Northfield Rd Bedford Ohio
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Stillman Rubber Co 5811 Marilyn Ave Culver City Calif
Stokes Molded Products Div of Electric Storage Battery Co Taylor & Webster Sts Trenton 4 N J (Hard)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y

## RUBBER, Molded (Natural)—continued

**WESTERN RUBBER CO 620 E Douglas St Goshen 3 Ind**

RUBBER MOLDED (Synthetic)—See Rubber, Synthetic (Processed)

RUBBER, NEOPRENE—See Rubber, Synthetic

## RUBBER, Plastic

Davidson Rubber Co Dover N H (Polyurethane)
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

RUBBER, ROD AND SHEET—See Rubber, Hard

RUBBER SHOCK INSULATORS—See Mountings, Rubber Insulated

## RUBBER, Silicone

Connecticut Hard Rubber Co 407 East Ave New Haven 9 Conn "Cohrlastic" (Sheet tubing and sponge)
**CONTINENTAL-DIAMOND FIBRE CORP Newark 2 Del**
**DOW CORNING CORP Midland Mich "Silastic"**
General Electric Co Silicone Products Dept Waterford N Y "G-E"
**GOSHEN RUBBER CO 609 E Iowa St GOSHEN IND "Gorsil"**
Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill
Silicones Div Union Carbide Corp 270 Park Ave N Y 17 N Y "Union Carbide"

## RUBBER, Silicone (Processed)

Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass (To order)
Arrowhead Products Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit Mich "Arcosil"
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn
Garlock Inc 402 Main St Palmyra N Y
**GOSHEN RUBBER CO 609 E Iowa St GOSHEN IND**
Haveg Industries Inc Taunton Div 336 Weir St Taunton Mass
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn
Moxness Products Inc 1914 Indiana St Racine Wis
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio "Orco"**
Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif "Parco" (O-rings)
**STALWART RUBBER CO 222 Northfield Rd Bedford Ohio**

## RUBBER, Sponge

American Forest Products Co Box 911 Norristown Pa
American Rubber Products Corp 315 Brighton St La Porte Ind (Die cut)
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich
Backstay Welt Co Oak & Howard Sts Union City Ind "Trimtite"
Bonded Foam Lastex Inc 4501 Perkins Ave Cleveland 4 Ohio "Velv-O-Tex"
Brown Rubber Co Union St & Concord Rd Lafayette Ind
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio
Cranz Co J M 2671 Main St Buffalo 14 N Y
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn "Dortite"
Faultless Rubber Co 268 Fourth St Ashland Ohio
Garlock Inc 402 Main St Palmyra N Y
General Tire & Rubber Co Industrial Products Div Wabash Ind
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio "Polyfoam"
Goodrich Sponge Products B F Howe Ave Shelton Conn "Spongex" (Molded forms die-cut shapes and sheet)
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio "Airfoam"
Hewitt-Robins Inc 240 Kensington Ave Buffalo 5 N Y "Restfoam" (Latex foam)
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill "Dutch Brand" (Sheets)
Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill
Mechanical Rubber Products Co Warwick N Y
Moxness Products Inc 1914 Indiana St Racine Wis
Rubatex Div Great American Industries Inc Bedford Va
Union Welt Corp 511 S Sangamon St Chicago 7 Ill
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## RUBBER, Synthetic

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa "Tygon"
Armstrong Rubber Co 475 Elm St West Haven 16 Conn (Foam)
**DU PONT DE NEMOURS & CO E I ELASTOMER CHEMICALS DEPT — Chlorine Products Div Wilmington 98 Del "Adeprene" "Viton" "Hypalon" (Neoprene)**
**ENJAY CHEMICAL CO 15 W 51st N Y 19 N Y "Enjay Butyl"**
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio "Butaprene"
Flintkote Co 30 Rockefeller Plaza New York 20 N Y
General Tire & Rubber Co Englewood Ave & Holmes Ave Akron 9 Ohio "Genthan"
**GOODRICH CHEMICAL CO B F 3135 Euclid Ave Cleveland 15 Ohio "Hycar"**
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio "Chemigum" "Pliofiex"
Mundet Cork Corp 7101 Tonnelle Ave North Bergen N J (Sheet)
**NAUGATUCK CHEMICAL DIV U S RUBBER CO Elm St Naugatuck Conn "Paracril-Oz" "Naugapol"**
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Thiokol Chemical Corp 780 N Clinton Ave Trenton 7 N J (Polysulfide)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

## RUBBER, Synthetic (Processed)

(In molded, extruded, sheet or other forms)

**ACADIA DIV WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill "Acadia" "Gaskofelt"**
Acushnet Process Co Rubber Div 754 Belleview Ave New Bedford Mass "Elasta Cast" (To order)
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich
Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio
Canfield Co H O 191 Housatonic Ave Bridgeport 1 Conn
Chardon Rubber Co 6th & Washington Aves Chardon Ohio
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "Sirvene"**
Flintkote Co 30 Rockefeller Plaza New York 20 N Y
Garlock Inc 402 Main St Palmyra N Y
**GOSHEN RUBBER CO 609 E Iowa St Goshen Ind**
Houghton & Co E F 303 W Lehigh Ave Philadelphia 33 Pa
Huntington Rubber Mills PO Box 570 Portland 7 Ore (To order)
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio
Johnson Rubber Co Middlefield Ohio
Judsen Rubber Works Inc 4107 W Kinzie St Chicago 24 Ill
Lavelle Rubber Co 430 N Wood St Chicago 22 Ill
Linear Inc State Rd & Levick St Philadelphia 35 Pa
Mechanical Rubber Products Co Warwick N Y
**OHIO RUBBER CO 300 Ben Hur Ave Willoughby Ohio "Orco"**
Plastic & Rubber Products Co 2100 Hyde Park Blvd Los Angeles 47 Calif "Parco" (O-rings)
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Chemical & Rubber Corp Allen Ave New Brunswick N J
Rubatex Div Great American Industries Inc Bedford Va
Seamless Rubber Co Specialty Div 253 Hallock Ave New Haven 3 Conn
**STALWART RUBBER CO 222 Northfield Rd Bedford Ohio**
Stillman Rubber Co 5811 Marilyn Ave Culver City Calif (O rings)
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Kem-blo"

## RULES, Slide

**KEUFFEL & ESSER CO 300 Adams St Hoboken N J "Decitrig" "Jet-Log" "Jet-Log Jr"**

RUNNING GEARS, TRAILER—See Gears, Running (Trailer)

RUSTPROOFING—See Galvanizing, Sherardizing and Rustproofing

## SAFEGUARDS, Flame (Industrial Burner)

**MINNEAPOLIS-HONEYWELL REGULATOR CO 2753 Fourth Ave S Minneapolis 8 Minn "Protecto-glo"**

## SANDERS, Portable Electric

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Aro Equipment Corp Bryan Ohio
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP" "Hicycle" "Super Cycle" "Universal"**
Clarke Floor Machine Co 30 E Clay Ave Muskegon Mich
Cummins Portable Tools Div of John Oster Mfg Co 5055 N Lydell Ave Milwaukee 17 Wis
Dremel Mfg Co 2420 18th St Racine Wis "Moto-Sander"
Jones Motrola Corp 132 Fairfield Ave Stamford Conn
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis
National-Detroit Inc 2810 Auburn St Rockford Ill "Easy" "Mity Midget"
Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rotor Tool Co 23600 Lakeland Blvd Cleveland 32 Ohio
Signal Mfg Co 47 Congress St Salem Mass
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Sander" (Belt disc and oscillating)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor SpeedSanders"
Stanley Electric Tools, Div. of Stanley Works 480 Myrtle Ave New Britain Conn
Sundstrand Machine Tool Div Sundstrand Corp Belvidere Ill
Thor Power Tool Co 175 State St Aurora Ill
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio "U S"
Weller Electric Co 601 Stone's Crossing Rd Easton Pa
Wen Products Inc 5806 Northwest Hwy Chicago 31 Ill

## SANDERS, Portable Pneumatic

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Aro Equipment Co Bryan Ohio
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio (Belt and disc types)
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP" "Hicycle" & "Supercycle"**
**CLECO AIR TOOL DIV OF REED ROLLER BIT CO 5125 Clinton Dr Houston 1 Tex**
Ingersoll-Rand Co 11 Broadway New York 4 N Y
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
National-Detroit Inc 2810 Auburn St Rockford Ill "Dual Action" "Easy" "Mity Midget"
Rotor Tool Co 23600 Lakeland Blvd Cleveland 23 Ohio
Sundstrand Machine Tool Div of Sundstrand Corp Belvidere Ill
Thor Power Tool Co 175 State St Aurora Ill
Watervliet Tool Co 413 N Pearl St Albany 1 N Y "Watco"
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y

## SANDERS, Traction, (Automobile, Truck and Bus)

Napco Industries Inc Highway Safety Appliances Div 834 N Seventh St Minneapolis 11 Minn "Napco Elston" (Electric for trucks and buses)

## SAWS, Band

Clemson Bros 22 Cottage St Middletown N Y "Star"
Moak Machine & Tool Co 2547 Connor St Port Huron Mich
Simonds Saw & Steel Co 470 Main St Fitchburg Mass

SAWS, HACK—See Blades, Saw (Hack); also Machines, Sawing (Power Hack)

## SAWS, Piston Ring Slotting

Circular Tool Co 765 Allens Ave Providence R I "Circle R"

## SAWS, Portable Electric

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y**
Cummins Portable Tools Div of John Oster Mfg Co 5055 N Lydell Ave Milwaukee 17 Wis
Dremel Mfg Co 2420 18th St Racine Wis "Moto-Saw"
Forsberg Mfg Co 125 Sea View Ave Bridgeport Conn "Whirl-Saw" "Whiz-Saw"
Kett Tool Co 5055 Madison Rd Cincinnati 27 O
Lipe-Rollway Corp 806 Emerson Ave Syracuse 1 N Y "Hand-I-Hack" (Hack)
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill (Saw and file attachment for drill)
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis (Circular reciprocating)
Modern Mfg Co 680 Davisville Rd Willow Grove Pa "Trade Master" (Combination drill and hack saw)
Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Saw"
SpeedWay Mfg Co 1421 Barnsdale Rd La Grange Park Ill "Thor SpeedSaws"
Stanley Electric Tools Div of Stanley Works 480 Myrtle Ave New Britain Conn
Thor Power Tool Co 175 State St Aurora Ill
Wells Mfg Corp E on Highway M-60 Three Rivers Mich (Band)
Wen Products Inc 5806 Northwest Highway Chicago 31 Ill
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco" (Attachments for sawing or filing)

## SAWS, Portable Pneumatic

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y**
Thor Power Tool Co 175 State St Aurora Ill

**SAWS, SWING — See Machines, Sawing (Swing)**

## SCALES, Computing, Compounding and Counting

Detecto Scales Inc 540 Park Ave Brooklyn N Y "Detecto-Gram"
Exact Weight Scale Co 540 E Town St Columbus 15 Ohio (Compounding and counting)
Toledo Scale Div of Toledo Scale Co Telegraph Rd Toledo 12 Ohio

## SCALES, Special Automotive Purpose

**(Including spring, armature and piston ring testing scales, connecting rod scales and connecting rod and piston classifying scales, etc.)**

Exact Weight Scale Co 540 E Town St Columbus 15 Ohio "Exact Weight" "Shadograph" "Selectrol"
Toledo Scale Div of Toledo Scale Co Telegraph Rd Toledo 12 Ohio

## SCALES, Weighing (Dial Type)

Cemco Industries Inc Galion Ohio "Trailer-Weigh" (Trailer)
Chatillon & Sons John 85-93 Cliff St New York 38 N Y
Detecto Scales Inc 540 Park Ave Brooklyn N Y
Dillon & Co W C 14620 Keswick St Van Nuys Calif
Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill
Howe Scale Co 160 Scale Ave Rutland Vt
Toledo Scale Div of Toledo Scale Co Telegraph Rd Toledo 12 Ohio

## SCALES, Weighing (Platform Type)

Buffalo Scale Co 46 Letchworth St Buffalo 13 N Y
Chatillon & Sons John 85 Cliff St New York 38 N Y
Detecto Scales Inc 540 Park Ave Brooklyn N Y
Exact Weight Scale Co 540 E Town St Columbus 15 Ohio
Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill
Howe Scale Co 160 Scale Ave Rutland Vt
Toledo Scale Co Telegraph Rd Toledo 13 Ohio

**SCREW DRIVERS—See Drivers, Screw**

**SCREWDRIVING BITS—See Bits, Screwdriving**

**SCREWDRIVING MACHINES — See Machines, Screwdriving**

**SCREW EXTRACTORS — See Extractors, Bolt and Screw**

## SCREW MACHINE PRODUCTS, TO ORDER

Aero Supply Mfg Co 611 W Main St Corry Pa
Agner Simplex Co 607 Pine St Burlington 1 Wis "Simplex"
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Beck Products Corp 12255 E Eight Mile Rd Detroit 5 Mich
Blake & Johnson Co 1498 Thomaston St Waterville 48 Conn
Bowen Products Corp Auburn N Y
Brown Corp 213 Bellevue Ave Syracuse N Y
Burgess-Norton Mfg Co 737 Peyton St Geneva Ill
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill
Circle Z R F D #2 Pomfret Center Conn
Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich
Condamatic Co 2700 E Nine Mile Rd Hazel Park Mich
Continental Motors Corp 205 Market St Muskegon 82 Mich
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Curtis Screw Co 17 Gull St Buffalo 13 N Y
Davis & Hemphill 2000 Furnave Ave Elkridge 27 Md
Defiance Screw Machine Products Div of Serrick Corp 733 Perry St Defiance Ohio
Delo Screw Products Co 38 S Franklin St Delaware Ohio
Dexter Products Div Dexter Industries Inc 1601 Madison Ave S E Grand Rapids 2 Mich
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio
Dole Valve Co 6201 Oakton St Morton Grove Ill (Brass)
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif "Tru-Flate" (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
Eastern Machine Screw Corp Truman & Barclay Sts New Haven 6 Conn "H&G"
Engineered Products Co 129 Smith St Flint 4 Mich
Federal Screw Works 3401 Martin St Detroit 10 Mich
Fox Products Co 4720 N 18th Philadelphia 41 Pa
Franklin Fibre Lamitex Corp 18 St E of Market St Wilmington Del (Plastic and fibre)
Freeman Co 8th & Walnut Sts Yankton S Dak
Fullerton Mfg Co 201 Mill Ave South Lyon Mich
Ganter Screw Products Inc 20 Walnut St Springfield Ohio
Hardy Mfg Corp W Pearl St Union City Ind
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn
Harvey Aluminum 19200 S Western Ave Torrance Calif (Aluminum)
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Highland Machine Co 3215 Superior Ave Cleveland 14 Ohio "Highlander"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Holt Products Co Walnut St Holt Mich
Hyland Machine Co 40 Potomac St Dayton 1 Ohio
Imerman Screw Products Co 6420 E Lafayette Ave Detroit 7 Mich
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Inland Automatic Inc 1108 Jackson St Omaha 8 Nebr
Kempsmith Machine Co 1819 S 71st St West Allis 14 Wis
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Lundberg Screw Products Co Box 1318 Lansing 4 Mich
Mac-it Parts Co Shippen & Liberty Sts Lancaster Pa
Masco Screw Products Co 12825 Ford Rd Dearborn Mich
Milwaukee Stamping Co 800 S 72nd St Milwaukee 14 Wis
Minneapolis-Moline Co Hopkins Minn (Automatic)
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich
Napoleon Products Co 410 Filmore St Napoleon Ohio
National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco"
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Neapco Products Inc South & Cross Sts Pottstown Pa
New Britain Machine Co Precision Products Div South St New Britain Conn
Ottemiller Co Wm H Pattison St & M & P R R York Pa
Parker & Harper Mfg Co 119 Dewey St Worcester 10 Mass
Peck Spring Co Whiting St Plainville Conn
Peerless Automatic Machine Co 1970 W 77th St Cleveland 2 Ohio
Perry-Fay Co 200 Perry Court Elyria Ohio
Persons-Majestic Mfg Co 54 Commercial St Worcester 8 Mass
Ravenna Metal Products Div of Standard Screw Co 6518 Ravenna Ave Seattle 15 Wash
Reda-Turner Mfg Co 311 Page Blvd Springfield 4 Mass
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Schwitzer Corp 1125 Massachusetts Ave Indianapolis 7 Ind
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn
Scully Foundry & Machine Co 66 S River St Coxsackie N Y
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind
Standard Locknut & Lockwasher Inc 2250 Valley Ave Indianapolis 18 Ind
Steinen Mfg Co 43 Bruen St Newark 5 N J
Sutton Tool Co 306 Magnolia St Sturgis Mich
Teale Machine Co 1425 University Ave Rochester 10 N Y
**TOUREK MFG CO J J 1901 S Kilbourn Ave Chicago 23 Ill**
Triangle Machine Products Co 7700 Marble Ave Cleveland 5 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
U S Automatic Corp Franklin St Amherst Ohio
Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass
Waltham Screw Co 77 Rumford Ave Waltham 54 Mass
Ware Fuse Corp 4406 W Lake St Chicago 24 Ill
**WEATHERHEAD CO FORT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio
Wicaco Machine Corp 4801 Stenton Ave Philadelphia 44 Pa
Worcester Taper Pin Co 47 Lagrange St Worcester Mass
Z & W Mfg Corp 30240 Lakeland Blvd Wickliffe Ohio
Zeller Corp Fort Wayne Rd Defiance Ohio

**SCREW MACHINES—See Machines, Screw**

**SCREW PLATES—See Dies and Screw Plates**

**SCREW SLOTTERS—See Blades, Metal Slitting and Screw Slotting**

## SCREWS, Ball Bearing

**EATON MFG CO Saginaw Div 1000 Rust Ave Saginaw Mich (Overrunning)**
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich

## SCREWS, Cap and Set

Acme Machine Products Div Serrick Corp 1300 Batavia St Muncie Ind
Allen Mfg Co Drawer 570 Hartford 1 Conn "Allen Head"
American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel "Nylo-Fast" nylon)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Bristol Co Waterbury 20 Conn
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"
Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill (Cap)

## SCREWS, Cap and Set—continued

Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Federal Screw Works 3401 Martin St Detroit 10 Mich
Ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio "Shinyheads" "Lo-Carbs" "Hi-Carbs" "Contri-Bor" (Socket and set)
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hartford Machine Screw Co P O Box 1440 Hartford 2 Conn "Stanscrew" (Socket)
Holo-Krome Screw Corp Hartford 10 Conn
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Mac-it Parts Co Shippen & Liberty Sts Lancaster Pa
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Lok-Thred"
Ottemiller Co Wm H Pattison St & M & P R R York Pa
Parker-Kalon Div General American Transportation Corp Clifton N J
Peerless Automatic Machine Co 1970 W 77th St Cleveland 2 Ohio
Perfect Parts Inc 45 W 23rd St N Y 10 N Y
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio (Cap)**

Rockford Bolt & Steel Co 226 Mill St Rockford Ill
Rockford Screw Products Co 2501 Ninth St Rockford Ill

**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y "Tensilok"**

Screw & Bolt Corp of America P O Box 1708 Pittsburgh 30 Pa

**SET SCREW & MFG CO 270 Main St Bartlett Ill "Nu-Cup" "Point-Lok" "Setko" (Hopperfed headless hexagon fluted slotted and slabbed set)**

St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Standard Pressed Steel Co P O Box 395 Jenkintown Pa
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Triplex Screw Co 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"

## SCREWS, Drive

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Screw Co 1670 W Main St Willimantic Conn
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite"
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio (Stainless steel)

**HASSALL INC JOHN P O Box 2194 Westbury L I N Y**

Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth St Rockford Ill

**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C**

United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio

## SCREWS, Machine

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
American-Monarch Corp 5900 Park Ave Cleveland Ohio
American Screw Co 1670 W Main St Willimantic Conn
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y "Nylo-Fast" (Nlyon stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky
Blake & Johnson Co 1498 Thomaston Ave Waterville Conn
Camcar Screw & Mfg Co 600 18th Ave Rockford Ill
Central Screw Co 3501 S Shields Ave Chicago Ill

**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**

Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"

**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite"**

Eagle Lock & Screw Co S Main St Terryville Conn
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio (Stainless steel)
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y (Nylon)
Harper Co H M 8200 Lehigh Ave Morton Grove Ill

**HASSALL INC JOHN P O Box 2194 Westbury L I N Y**

Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
International Screw Co 9444 Roselawn Ave Detroit Mich
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Mac-it Parts Co Shippen & Liberty St Lancaster Pa
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill

**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**

**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Spin-Lock" "Tuff-Tite"**

Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco"
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth St Rockford Ill

**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y**

Scovill Mfg Co Waterville Industrial Fastener Sales 1655 Thomaston Ave Waterville 14 Conn (Slotted Phillips type clutch type and "Sems" with pre-assembled washers)

**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Slotted and Phillips)**

Southington Hardware Div of Screw & Bolt Corp of America 168 Center St Southington Conn
Specialty Screw Corp 711 19th St Rockford Ill
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Triplex Screw Co Div Murray Corp of America 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Wolverine Bolt Co 9685 Grinnell Ave Detroit 13 Mich

**SCREWS, SELF-LOCKING—See Screws and Bolts, Self-Locking**

**SCREWS, SELF-SEALING—See Screws and Bolts, Self-Locking**

## SCREWS, Self-Tapping and Thread-Cutting

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel self-tapping)
American Screw Co 1670 W Main St Willimantic Conn
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Blake & Johnson Co 1498 Thomaston St Waterville 48 Conn
Camcar Screw & Mfg Co 600 18th Ave Rockford Ill (Thread-cutting)
Central Screw Co 3501 S Shields Ave Chicago 9 Ill
Champ-Items Inc 6191 Maple Ave St Louis Mo

**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite"**

Eagle Lock & Screw Co S Main St Terryville Conn (Self-tapping)

**EATON MFG CO RELIANCE DIV 25 Charles Ave S E Massillon Ohio "Reliance"**

Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Harper Co H M 8200 Lehigh Ave Morton Grove Ill (Tapping)
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Tapping)
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin" (Self-tapping)
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill (Thread cutting)

**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**

**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Spin-Lock" "Tuff-Tite"**

Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill (Thread cutting)
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco"
Rockford Screw Products Co 2501 Ninth St Rockford Ill

**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y**

Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn
Scovill Mfg Co Waterville Industrial Fastener Sales 1655 Thomaston Ave Waterville 14 Conn (Phillips clutch and slotted types)
Set Screw & Mfg Co 270 Main St Bartlett Ill "Setko" (Self-tapping)

**SHAKEPROOF DIV OF ILLINOIS TOOL WORKS St Charles Rd Elgin Ill "Nibscrew" "Shakeproof"**

**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Slotted and Phillips type tapping)**

Southington Hardware Div of Screw & Bolt Corp of America 168 Center St Southington Conn "So-Hard" (Slotted and Phillips type self-tapping)
Specialty Screw Corp 711 19th St Rockford Ill
Thompson-Bremer & Co 228 N La Salle St Chicago 1 Ill "Everlock" (Thread-cutting)
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio

## SCREWS, Sheet Metal

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum)
American Screw Co 1670 W Main St Willimantic Conn
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Camcar Screw & Mfg Corp 600 18th Ave Rockford Ill
Central Screw Co 3501 S Shields Ave Chicago 9 Ill

**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite"**

Ferry Screw Products Inc 5240 Smith Rd Cleveland 30 Ohio
International Screw Co 9444 Roselawn Ave Detroit 4 Mich
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Midland Screw Corp 3638 S Kedzie Ave Chicago 32 Ill

**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**

**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio**

Paine Co 3 Westgate Rd Addison Ill
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth St Rockford Ill (Slotted Phillips type)
Scovill Mfg Co Waterville Industrial Fastener Sales 1655 Thomaston Ave Waterville 14 Conn (Slotted Phillips and clutch types)

**SHAKEPROOF DIV OF ILLINOIS TOOL WORKS St Charles Rd Elgin Ill**

**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Slotted and Phillips types)**

Specialty Screw Corp 711 19th St Rockford Ill
Triplex Screw Co Div Murray Corp of America 5319 Grant Ave Cleveland Ohio
Tru-Fit Screw Products Corp 13000 Athens Ave Cleveland 7 Ohio

**SCREWS, THREAD-CUTTING — See Screws, Self-Tapping and Thread-Cutting**

## SCREWS, Thumb

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Billings & Spencer Co 1 Laurel St Hartford 1 Conn
Blake & Johnson Co 1498 Thomaston Ave Waterville Conn
Central Screw Co 3501 S Shields Ave Chicago 9 Ill
Gries Reproducer Corp Beechwood Ave & Second St New Rochelle N Y "GRC"
Keystone Forging Co Northumberland Pa
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Tuff-Tite"
Parker-Kalon Div General American Transportation Corp Clifton N J
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Williams & Co J H 400 Vulcan St Buffalo 7 N Y

## SCREWS, Valve Tappet Adjusting

**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill**
Ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio

## SCREWS, Wood

Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite"**
Elco Tool & Screw Corp 1111 Samuelson Rd Rockford Ill
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill
Midland Screw Corp 3636 S Kedzie Ave Chicago 32 Ill
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Tuff-Tite"**
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Slotted and Phillips type)**
Southington Hardware Div of Screw & Bolt Corp of America 168 Center St Southington Conn "So-Hard" (Slotted and recessed)
Sterling Bolt Co 363 W Erie St Chicago 10 Ill

## SCREWS and BOLTS, Recessed Head

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Screw Co 1670 W Main St Willimantic Conn (Phillips type)
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Camcar Screw & Mfg Co 600 18 Ave Rockford Ill
Central Screw Co 3501 S Shields Ave Chicago 9 Ill (Phillips type)
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio "Place" (Bolts licensees)**
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite" (Phillips type)**
Elco Tool & Screw Corp 1111 Samuelson Rd Port Chester N Y (Phillips and clutch types)
Harper Co H M 2624 Fletcher St Chicago 18 Ill (Phillips type)
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt" (Phillips type)
International Screw Co 9444 Roselawn Ave Detroit Mich (Phillips type)
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio (Phillips type)
Milford Rivet & Machine Co Post Rd Milford Conn (Phillips type screws)
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Spin-Lock" (Phillips type)**
Parker-Kalon Div General American Transportation Corp Clifton N J (Phillips type screws)
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill (Phillips type)
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco"
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Rockford Screw Products Co 2501 Ninth St Rockford Ill (Phillips and clutch types)
**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y (Phillips and clutch types)**
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn (Phillips type)
Scovill Mfg Co Waterville Screw Products Div Waterville 48 Conn (Phillips type)
**SHAKEPROOF DIV OF ILLINOIS TOOL WORKS St Charles Rd Elgin Ill**
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Slotted and Phillips types)**
Specialty Screw Corp 711 19th St Rockford Ill
Sterling Bolt Co 363 Erie St Chicago 10 Ill (Phillips type)
Triplex Screw Co Div Murray Corp of America 5319 Grant Ave Cleveland Ohio (Phillips type)
Vol-Shan Mfg Co 8463 Higuera St Culver City Calif (Phillips type)
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew"

## SCREWS and BOLTS, Self-Locking

Central Screw Co 3501 S Shields Ave Chicago 9 Ill
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio "Place" (Bolts licensees)**
**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill**
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite"
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio "Dardelet" (Licenses) "Lok-Thred" (Sub-licensee)
Milford Rivet & Machine Co Post Rd Milford Conn (Screws)
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Flex-Head" "Lok-Thred" "Place" (Bolts licensees)**
Nylok Corp 611 Industrial Ave Paramus N J
**SET SCREW & MFG CO 270 Main St Bartlett Ill "Crest-lok" "Zip-Grip" (Set screws)**
**SHAKEPROOF DIV OF ILLINOIS TOOL WORKS St Charles Rd Elgin Ill**
Triplex Screw Co Div Murray Corp of America 5319 Grant Ave Cleveland Ohio (Preassembled)

## SCREWS and BOLTS, Self-Sealing

A P M Corp 252 Hawthorne Ave Yonkers N Y "Seelscrews" "Seelbolts"
Russell Burdsall & Ward Bolt & Nut Co Port Chester N Y "Spin-Seal"

## SEALANTS, Bolt and Nut

American Sealants Co 113 Woodbine St Hartford 6 Conn (Also washers metal parts hydraulic systems etc)

**SEALING NUTS—See Nuts, Sealing**

## SEALS, Hub (Tractor and Trailer)

Stemco Mfg Co Industrial Blvd Longview Tex

## SEALS, Mechanical Shaft

American Felt Co Glenville Conn "Oil Foil"
Chicago-Allis Mfg Corp 113 N Green St Chicago 7 Ill
**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "C/R"**
Federal Seal & Gear Corp 522 N Krueger St Kendallville Ind "Master Seal"
**GARLOCK INC 402 Main St Palmyra N Y "Mechanipak"**
Koppers Co Metal Products Div 200 Scott St Baltimore 3 Md
**ROTARY SEAL DIV MUSKEGON PISTON RING CO Gardner St Sparta Mich (For auto water pumps and air conditioning units)**
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**
Stackpole Carbon Co Stackpole St St Marys Pa
**VICTOR MFG & GASKET CO 5750 W Roosevelt Rd Chicago 50 Ill "Victopac" "Victoprene"**

## SEALS, Metallic Bellow

**CHICAGO RAWHIDE MFG CO 1301 Elston Ave Chicago 22 Ill "C/R"**

**SEALS, OIL AND GREASE—See Rings & Seals, Oil & Grease Retaining**

## SEALS, Valve

(To control oil loss through valve guide)
**PERFECT CIRCLE CORP 552 S Washington St Hagerstown Ind**

**SEAMING MACHINES METAL — See Machine, Seaming (Metal)**

**SEARCHLIGHTS — See Lamps, Head; also Lamps, Fog, Road and Spot**

**SEAT ADJUSTERS — See Adjusters, Driver's Seat**

**SEAT COVER MATERIAL — See Fabric, Coated Cloth; Fabric, Fibre (Seat Cover); Fabric, Plastic; Fabric, Seat Cover (Woven)**

**SEAT CUSHIONS—See Cushions, Seat**

**SEAT FRAMES—See Frames, Seat**

**SEAT MOUNTINGS, RUBBER INSULATED —See Mountings, Rubber Insulated**

**SEAT PADS—See Pads, Seat**

**SEAT SWITCHES—See Switches, Seat and Window (Electric)**

## SEATS, Bus

American Seating Co Ninth St & Broadway Grand Rapids Mich "Amseco Bodiform" "American Expressway" "American Transiter"
Amesbury Seat Mfg Co 200 S River St Ypsilanti Mich
Freedman Co Hyman 1825 W Newport Ave Chicago 13 Ill
Gass Industries H A 1312 Harmon Pl Minneapolis Minn
General Seating Co 220 Main St Topton Pa
National Seating Co 555 Park Ave E Mansfield Ohio (Sole distributors George B Cross Co 624 S Michigan Ave Chicago 5 Ill)
Troy Sunshade Co Troy Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## SEATS, Tractor

Freedman Co Hyman 1825 W Newport Ave Chicago 13 Ill (Upholstered)
Monroe Auto Equipment Co 1426 E First St Monroe Mich "Monroe E-Z-Ride"

## SEATS, Truck

American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich (Unison action)
American Seating Co Ninth St & Broadway Grand Rapids Mich "Tilt-A-Way"
Bostrom Corp 133 W Oregon St Milwaukee 4 Wis "Level Ride" (Spring suspension)
Comfort Cushion Co 5062 Loraine Ave Detroit 8 Mich
Freedman Co Hyman 1825 W Newport Ave Chicago 13 Ill
Gass Industries H A 1312 Harmon Pl Minneapolis Minn
General Seating Co 220 Main St Topton Pa
Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich
**MILSCO MFG CO 2758 N 33rd St Milwaukee Wis (Foam rubber)**
**MONROE AUTO EQUIPMENT CO 1426 E First St Monroe Mich (Hydraulic suspension)**
National Seating Co 555 Park Ave E Mansfield Ohio (Sole distributors George B Cross Co 624 S Michigan Ave Chicago 5 Ill)
Troy Sunshade Co Troy Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## SEATS, Valve

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Burd Piston Ring Co Box 567 Eau Claire Wis
**EATON MFG CO SAGINAW DIV 1000 Rust St Saginaw Mich**
Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Hub City Iron Co 218 First Ave S W Aberdeen S D
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog"
Jones Co L E 1200 34th St Menominee Mich
Lee Co K O Congress at First Ave S E Aberdeen S D
Parts Processing Corp 1499 E Michigan Ave Battle Creek Mich "Par-Plus"

## SEATS, Valve—continued

Peterson Machine Tool Inc 6200 Merriam Dr Merriam Kans "P-B" (Screw-in type)
Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC"
**THOMPSON PRODUCTS VALVE DIV THOMPSON-RAMO-WOOLDRIDGE INC 1455 E 185th St Cleveland 10 Ohio "Durnerome"**
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Versnick Mfg Co Madisonville Ky
**WAUSAU MOTOR PARTS CO P O Box 318 Schofield Wis "Chieftain"**
Wells Inc Martin 5886 Compton Ave Los Angeles 1 Calif "Well-Tite"
White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"

**SEMAPHORES—See Signals, Direction Indicating (Auto)**

## SEMS

(See also under Washers, Lock)

American Screw Co 1670 W Main St Willimantic Conn
Butcher & Hart Mfg Co 4601 Cortland Ave Altoona Pa "B&H"
Central Screw Co 3501 S Shields Ave Chicago 9 Ill
**CONTINENTAL SCREW CO 451 Mt Pleasant St New Bedford Mass "Holtite"**
Eaton Mfg Co Reliance Div 25 Charles Ave S E Massillon Ohio
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Midland Screw Corp 2638 S Kedzie Ave Chicago 32 Ill
**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**
**NATIONAL SCREW & MFG Co 2440 E 75th St Cleveland 4 Ohio**
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Rockford Screw Products Co 2501 Ninth St Rockford Ill
**RUSSELL BURDSALL & WARD BOLT & NUT CO Port Chester N Y**
Scovill Mfg Co Waterville Fastener Sales 1655 Thomaston Ave Waterville 14 Conn
Screw & Bolt Corp of America P O Box 1708 Pittsburgh 30 Pa
**SHAKEPROOF DIV OF ILLINOIS TOOL WORKS St Charles Rd Elgin Ill**
Thompson-Bremer & Co 228 N LaSalle St Chicago 1 Ill

## SEPARATORS, Air-Fluid (For Air Suspension Systems)

AC Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich

## SEPARATORS, Chip

(For separating oil or chips from cut-off finished parts)

American Laundry Machinery Co Norwood Station Cincinnati 12 Ohio
**BARNES DRILL CO 826 Chestnut St Rockford Ill "Barnesdril"**
De Laval Separator Co Poughkeepsie N Y
Indiana Commercial Filters Corp 415 Indianapolis Ave Lebanon Ind "CFC" (Magnetic)
Ransohoff Co N Fifth St & Ford Blvd Hamilton Ohio
Roto-Finish Co 3700 Milham Rd Kalamazoo Mich

## SEPARATORS, Compressed Air

**ADAMS CO R P 264 E Park Dr Buffalo 17 N Y "Cyclone"**

## SEPARATORS, Storage Battery

American Hard Rubber Co Div Amerace Corp Ace Rd Butler N J "Ace-Sil"
Arrow Mill Co 2440 Arrow Mill Ave Los Angeles 23 Calif
Dewey & Almy Chemical Div W R Grace & Co 62 Whittemore Ave Cambridge 40 Mass "Darak"
**EVANS PRODUCTS CO 13101 Eckles Rd Plymouth Mich "Evanite" (Wood-fibre)**
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
Standard Electric Co Permalife Glass Fibre Div P O Box 6356 San Antonio Tex "Permalife"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Peerless" (Rubber and plastic)

**SETS, DIE—See Die Sets (Forging, Stamping, etc.)**

## SETS, Rivet

Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"

**SETS, WIRING—See Cables (Sets)**

## SETTERS, Stud, Nut Bolt and Lag Screw

**AIRETOOL MFG CO 302 S Center St Springfield Ohio (Portable pneumatic nut)**
Apex Machine & Tool Co 1025 Patterson Blvd Dayton Ohio
Aro Equipment Co Bryan Ohio (Portable pneumatic nut)
Atmars Tool Co 600 16th St Oakland 12 Calif "Pushon"
Buckeye Tools Corp 5005 Springboro Pike Dayton 9 Ohio (Portable electric and pneumatic runners)
Chicago Pneumatic Tool Co 6 E 44th St New York 17 N Y "Universal" "Magnamatic"
**CLECO AIR TOOLS DIV OF REED ROLLER BIT CO 5125 Clinton Drive Houston 1 Tex (Portable pneumatic)**
Cornwell Quality Tools Co Mogadore Ohio
Detroit Power Screwdriver Co Dept 60-AIPG 2801 W Fort St Detroit 16 Mich
Dixon Automatic Tool Inc 2300 23rd Ave Rockford Ill (Portable pneumatic nut)
Errington Mechanical Laboratory Inc 24 Norwood Ave Stapleton S I 4 N Y
Fairmount Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio (Screw)
Gardner-Denver Co S Front St Quincy Ill (Portable pneumatic nut)
Garvin Bros Inc 19880 State Line Rd South Bend Ind "Power-Torque"
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio (Screw)
Hunter Tools 9851 Alburtis Ave Santa Fe Springs Calif "Economy" "Supreme"
Ingersoll-Rand Co 11 Broadway New York 4 N Y (Pneumatic and electric)
Master Power Corp 6225 Cochran Rd Solon 39 Ohio (Portable pneumatic nut)
Millers Falls Co 57 Wells St Greenfield Mass
Milwaukee Electric Tool Co 5350 W State St Milwaukee 8 Wis (Portable electric nut)
Oxwall Tool Co 928 Broadway N Y 10 N Y (Nut)
Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif (Stud)
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"
Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohio (Portable pneumatic nut)
Skil Corp 5033 Elston Ave Chicago 30 Ill "Skil Driver" (Portable electric nut)
**THOR POWER TOOL CORP 175 State St Aurora Ill (Portable electric and portable pneumatic nut also multiple nut)**
Titan Tool Co E Main St Fairview Erie County Pa (Stud; also combination stud driver and remover)
**TOMKINS-JOHNSON CO 2425 W Michigan Ave Jackson Mich "Clinchor"**
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

**SEWING MACHINES—See Machines, Sewing**

**SHACKLE BOLTS—See Bolts, Spring Shackle**

## SHACKLES, Spring

Alloy Mfg Co 3207 S Shields Ave Chicago 16 Ill "Alco" "Alloy" "Quality Built"
Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Elgin Machine Works Inc 412 N State St Elgin Ill
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee Wis "Bull Dog" (Rubber and steel)
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Porter Co H K Forge & Fittings Div Cleveland Forge Works 3200 E 79th St Cleveland 4 Ohio "Cleveland"
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco"
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Trayer Products Inc E Clinton St Elmira N Y (Screw type rubber)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

**SHAFT TURNING MACHINES—See Machines, Shaft Turning**

## SHAFTING, Flexible

(For driving speedometers, odometers or taximeters; also for drilling, grinding, polishing machines, etc.)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich (Assemblies)**
Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"
Barbour-Stockwell Instruments Div of Curtis & Marble Machine Co 80 Cambridge St Worcester 3 Mass "Reliance"
Blackstone Mfg Co 4630 W Harrison St Chicago 44 Ill (Speedometer)
Electric Autolite Co Toledo 1 Ohio "Autolite"
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J (Speedometer)
Hall Products Div of C M Lamp Co 1035 E Hancock Ave Detroit 7 Mich "Duro-Flex"
Hygrade Products Div Standard Motor Products Inc 37-18 Northern Blvd Long Island City N Y (Speedometer)
Jarvis Corp Middletown Conn
Kupfrian Mfg Corp 351 State St Binghamton N Y
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Speedometer; sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco"
Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
**STEWART CORP F W 4311 N Ravenswood Ave Chicago Ill "Circ'e Ess"**
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
**STOW MFG CO 443 State St Binghamton N Y**
Teleflex Industrial Products Inc Fourth & Berks Sts Boyertown Pa "Rotoflex" "Teleflex" (For trucks and buses)
United Parts Mfg Div Echlin Mfg Co 1250 W Van Buren St Chicago 7 Ill "Speedoflex" (Speedometer)
United States Taximeter Co 514 W 54th St New York 19 N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National" (Speedometer)
White Industrial Div S S 10 E 40th St N Y 16 N Y
Wyzenbeek & Staff Inc 223 N California Ave Chicago 12 Ill "Wyco"

**SHAFTS, CAM—See Camshafts**

**SHAFTS, CLUTCH—See Shafts, Transmission and Clutch**

**SHAFTS, CRANK—See Crankshafts**

## SHAFTS, Propeller

(Shafts only; for universal joints—see Joints, Universal)

Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**
Detroit Bevel Gear Div. of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Detroit Universal Div Chrysler Corp 6455 Kingsley Ave Dearborn Mich
Dittmer Gear & Mfg Corp 193 Grand St Lockport N Y
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
**MECHANICS UNIVERSAL JOINT DIV BORG-WARNER CORP 2020 Harrison Ave Rockford Ill**
Morse Chain Co Ithaca N Y "Morflex"
Neapco Products Inc South & Cross Sts Pottstown Pa
**ROCKWELL-STANDARD CORP UNIVERSAL JOINT DIV 1 Glass St Allegan Mich**
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
U S Axle Co Water St Pottstown Pa

## SHAFTS, Rear Axle

(Shafts only; for complete axles—See Axles, Rear)

Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio
Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Eaton Mfg Co Axle Div 739 E 140th St Cleveland 10 Ohio
Eaton Mfg Co Marion Forge Div Route 95 W Marion Ohio

**Foote Axle & Forge Co 3954 Whiteside St Los Angeles 63 Calif**
International Parts Corp 4101 W 42nd Pl Chicago 32 Ill
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Napco Industries Inc Napco Axle Div 834 N Seventh St Minneapolis 11 Minn
Saco - Lowell Automotive Div Saco - Lowell Shops Box 111 Saco Maine
Spencer Mfg Co 225 N Main St Spencer Ohio
**U S AXLE CO Water St Pottstown Pa**

## SHAFTS, Transmission and Clutch

Detroit Bevel Gear Div of Napco Industries Inc 834 N Seventh St Minneapolis 11 Minn
Eaton Mfg Co Automotive Gear Div S 8th & O Sts Richmond Ind "Double Diamond" (Transmission)
Modern Machine Works Inc 5357 S Kirkwood Ave Cudahy Wis
Toledo Steel Products Co 724 Monroe St Toledo 1 Ohio (Pump)

## SHAFTS, Valve Rocker Arm

**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill**
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis

## SHAFTS, Water Pump

**(See also Parts, Water Pump)**

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Brown Corp 213 Bellevue Ave Syracuse N Y
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog" (For Ford Chevrolet & Plymouth cars)
Modern Machine Works Inc 5357 S Kirkwood Ave Cudahy Wis
Ottawa Steel Products Inc 745 Woodlawn Ave Grand Haven Mich "OSP"

## SHAPERS, Metal Cutting

Cincinnati Shaper Co P O Box 111 Cincinnati 11 Ohio
**GOULD & EBERHARDT DIV OF NORTON CO Worcester 6 Mass "G & E"**
Logan Engineering Co 4901 W Lawrence Ave Chicago 30 Ill
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
**MICHIGAN TOOL CO Michigan - Lorenz Div 7171 McNichols Rd E Detroit 12 Mich "Shear Speed" (Special for gears etc)**
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn (Vertical)
**Rockford Machine Tool Co 2400 Kishwaukee** St Rockford Ill "Hy-Draulic"
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Sheldon Machine Co 4240 N Knox Ave Chicago 41 Ill
Smith & Mills Shaper Div Nebel Machine Tool Co 3401 Central Parkway Cincinnati 25 Ohio
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind
Swift Ohio Corp 800 S Leighton St Kenton Ohio "Ohio"
Western Machine Tool Works 255 W Ninth St Holland Mich "Steptoe" "Steptoe-Western"

**SHARPENERS, REAMER — See Machines, Grinding (Reamer & Cutter)**

**SHARPENERS, SAW—See Machines, Grinding (Saw)**

## SHEARS, Alligator

Coulter & McKenzie Machine Co 35 Union Ave Bridgeport Conn
Doelger & Kirsten Inc 3015 W Chambers St Milwaukee Wis "Milwaukee" "D & K"
Hendley & Whittemore Co Box 959 Beloit Wis
Mesta Machine Co Box 1466 Pittsburgh 30 Pa

## SHEARS, Knife

**BUFFALO FORGE CO 490 Broadway Buffalo 4 N Y (Billet)**
Cincinnati Shaper Co P O Box 111 Cincinnati 11 Ohio
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Excelsior Tool & Machine Co 31st St & Ridge Ave East St Louis Ill
Hill Acme Co Hill Div 1201 W 65th St Cleveland 2 Ohio (Bar-billet)
Kling Bros Engrg Works 1320 N Kostner Ave Chicago 51 Ill
Lodge & Shipley Co 3055 Colerain Ave Cincinnati 25 Ohio "Sof-Loc"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Mesta Machine Co Box 1466 Pittsburgh 30 Pa
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
O'Neil-Irwin Mfg Co 514 Eighth Ave Lake City Minn "Di-Acro"
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
**STEELWELD MACHINE DIV CLEVELAND CRANE & ENGRG CO 5867 E 289th St Wickliffe Ohio**
**VERSON ALLSTEEL PRESS CO 93rd St & Kenwood Ave Chicago 19 Ill (Hydraulic)**

## SHEARS, Portable Electric

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Porto-Shear"
Millers Falls Co 57 Wells St Greenfield Mass
Skil Corp 5033 Elston Ave Chicago 30 Ill "SkilShear"
Stanley Electric Tools Div of Stanley Works 480 Myrtle Ave New Britain Conn "Stanley Unishear"

## SHEARS, Rotary

Bliss Co E W 1420 Hastings St Toledo 7 Ohio
Browne & Sharpe Mfg Co 235 Promenade St Providence R I
Cowles Tool Co 2086 W 110th St Cleveland Ohio
Die & Automation Inc 5353 Dixie Highway Hamilton Ohio "Shear-Matic" (Automatic)
Illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Illinite"
Kling Bros Engrg Works 1320 N Kestner Ave Chicago 51 Ill
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Yoder Co 5500 Walworth Ave Cleveland 2 Ohio

## SHEARS, Slitting

Bertsch & Co Cambridge City Ind
Bliss Co E W 1375 Raff Rd S W Canton Ohio
**CLEVELAND PUNCH & SHEAR WORKS CO 3917 St Clair Ave Cleveland Ohio**
Hendley & Whittemore Co Box 959 Beloit Wis
Loma Machine Mfg Co 114 E 32nd St New York 16 N Y
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Union Tool Corp 800 N Detroit St Warsaw Ind
Whitney Metal Tool Co 190 Forbes St Rockford Ill "Whitney-Jensen"
Yoder Co 5553 Walworth Ave Cleveland 2 O (Rotary gang)

## SHEARS, Squaring (Metal)

Cincinnati Shaper Co P O Box 111 Cincinnati 11 Ohio
Diamond Machine Tool Co 5111 Coffman-Pico Rd Pico Calif
Famco Machine Co 3100 Sheridan Rd Kenosha Wis
Johnson Machine & Press Corp 620 W Indiana Ave Elkhart Ind (Hydraulic)
Niagara Machine & Tool Works 683 Northland Ave Buffalo 11 N Y
Peck Stow & Wilcox Co 217 Center St Southington Conn "Pexto"
Wysong & Miles Co 625 Fulton St Greensboro N C

**SHEET METAL CUTTING TOOLS—See Cutters, Sheet Metal**

## SHEET METAL FABRICATORS

**(See also Stampings, Metal)**

Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis

**SHEET METAL FASTENERS—See Fasteners, Sheet Metal**

**SHEET METAL LEVELERS—See Levelers, Sheet Metal**

**SHEET METAL TESTING MACHINES—See Machines, Testing (Metal)**

**SHEET METAL WORKING MACHINES—See Machines, Sheet Metal Working**

**SHEET STEEL LIFTERS—See Lifters, Sheet Steel**

**SHEETS, AUTOMOBILE BODY—See Steel, Sheet**

**SHEETS, ROD AND TUBES, PLASTIC—See Plastics, Sheets, Rods, Tubes and Filaments**

**SHEETS, TRANSPARENT — See Plastics, Sheets (Transparent)**

**SHIELDS, EYE—See Glasses, Safety (Eye); Goggles, Mechanics' and Welders'**

**SHIELDS, WIND—See Windshields**

## SHIFTERS, Gear

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind (Power and automatic)
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo (Mechanical for Chevrolet cars)

## SHIMS, Babbitted

Laminated Shim Co 62 Union St Glenbrook Conn "Laminum"

## SHIMS, Brass and Copper

Acme Mfg & Gasket Co 733 N 41st St Philadelphia 4 Pa
Fitzgerald Mfg Co 691 Main St Torrington Conn
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis
Konigslow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio
Laminated Shim Co 62 Union St Glenbrook Conn
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
National Seal Div Federal-Mogul-Bower Bearings Inc Broadway at National Ave Redwood City Calif (Brass)
Precision Steel Warehouse Inc 3500 N Wolf Rd Franklin Park Ill (Brass)
Rotax Mfg Co 175 Ridge St Newark 4 N J (Brass stock)
Staver Co 41 N Saxon Ave Bay Shore L I N Y (Brass)
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill (Brass)
Whitehead Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

## SHIMS, Connecting Rod

Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Laminated Shim Co 62 Union St Glenbrook Conn

## SHIMS, Laminated

Federal-Mogul Service Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Ave Detroit 13 Mich
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Laminated Shim Co 62 Union St Glenbrook Conn (Brass and steel)
National Seal Div Federal-Mogul-Bower Bearings Inc Broadway at National Ave Redwood City Calif
Staver Co 41 N Saxon Ave Bay Shore L I N Y "Micro-Shims"
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

## SHIMS, Lead and Lead Alloy

Staver Co 41 N Saxon Ave Bay Shore L I N Y
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis

## SHIMS, Leather

**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**

## SHIMS, Steel

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Bender Equipment Co J H 5430 Tweedy Blvd South Gate Calif
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich "De-Sta-Co"
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis "Bull Dog"
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Konigslow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio
Laminated Shim Co 62 Union St Glenbrook Conn

## SHIMS, Steel—continued

National Seal Div Federal-Mogul-Bower Bearings Inc Broadway at National Ave Redwood City Calif
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Standard Supply Co 5920 Bryant St Pittsburgh 6 Pa
Staver Co 41 N Saxon Ave Bay Shore L I N Y
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill

## SHOCK ABSORBERS, Auto (Friction, Hydraulic and Pneumatic)

Blackstone Mfg Co 4630 W Harrison St Chicago 44 Ill "Guide-Rite"
Briggs Shock Absorber Co 1148 Euclid Ave Cleveland 15 Ohio (Hydraulic)
Delco Products Div General Motors Corp 329 E First St Dayton Ohio "Delco" "Superide" (Hydraulic)
Gabriel Co 1148 Euclid Ave Cleveland 15 Ohio
Gilpak Automotive Products Div Packer Auto Parts Inc Roselle N J
GorDag Industries Inc 803 Forshay Tower Minneapolis 3 Minn (Spring)
Heckethorn Mfg & Supply Co P O Box 117 Dyersburg Tenn "Columbus" (Licensees)
Houdaille Industries Inc Buffalo Hydraulics Div 537 E Delavan Ave Buffalo 11 N Y
**MONROE AUTO EQUIPMENT CO 1426 E First St Monroe Mich "Monro-Matic" (Hydraulic)**
Moog Industries Inc 6565 Wells Ave St Louis 33 Mo
Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco"
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio

## SHOES, Brake

Bendix Products Div Bendix Aviation Corp South Bend 20 Ind (Lined)
Delco Moraine Div General Motors Corp 1420 Wisconsin Blvd Dayton Ohio
Fe-adco Corp 12345 Schaefer Rd Detroit 27 Mich
Grey Rock Div of Raybestos-Manhattan Inc Manheim Pa
Grizzly Mfg Div of MarPro Inc 168 N Michigan Ave Chicago 1 Ill
Imco Mfg & Sales Corp 10 E Lafayette Ave Baltimore 2 Md (Lined and unlined)
Miley Co L J 18 S Sangamon St Chicago 7 Ill
Pick Mfg Co West Bend Wis (Lined and unlined)
Porter Co H K Amco Works E Sabine St Huntington Ind "Amco" (Bonded)
Porter Co H K Thermoid Div 200 Whitehead Rd Trenton 6 N J "Thermoid"
Raybestos Div of Raybestos Manhattan Inc 75 E Main St Stratford Conn
Russell Mfg Co E Main St Middletown Conn "Rusco"
Transit Parts Co 35700 Vine St Willoughby Ohio (For buses trucks and trailers)
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

## SHROUDS, Fan

**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind**

## SHUTTERS, Radiator

**(See also Thermostats, Water Circulating)**

Brewer-Tichener Corp 115 Pt Watson St Cortland N Y "Moto-Gard" (For buses and trucks hand operated)
Hardy Mfg Corp W Pearl St Union City Ind (Automatic and hand operated)
Kysor Heater Co 1100 W Wright St Cadillac Mich (Automatic and hand operated)

## SIDERAILS, Frame (Truck and Trailer)

**PARISH PRESSED STEEL DIV OF DANA CORP Robeson & Weiser Sts Reading Pa**

**SIGHT FEED OILERS—See Oilers, Sight Feed**

## SIGNALS, Direction Indicating (Auto and Truck)

**(Indicates when turn or stop is about to be made)**

Advanced Mfg Inc 738 W 17th St Costa Mesa Calif
Anthes Force Oiler Co 20th St & Ave M Ft Madison Iowa (Truck)
Arrow Safety Device Co Mt Holly N J (Also flashing stop lights)
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill "Pathfinder" also "Alco" (Conversion units for converting parking, stop and tail lights into direction indicating signals)
Betts Machine Co 1800 Pennsylvania Ave W Warren Pa
Bolser Corp S Main St Cedar Falls Iowa (For trucks)
Carolina Metal Products Corp 2222 South Blvd Charlotte 3 N C "Campco" (Bus semaphores)
Columbus Metal Products Co 1341 Norton Ave Columbus 8 Ohio "Catseye"
Dietz Co R E 225 Wilkinson St Syracuse 1 N Y (Truck)
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Do-Ray Turn-Lit" (Also conversion kits for passenger cars)
Electric Autolite Co Toledo 1 Ohio
Electro Mechanical Products Co 32700 Ford Rd Garden City Mich
Griffin Lamp Co Shelby Miss (Also conversion kits)
Grote Mfg Co State Route 7 Madison Ind (Also combination stop tail and license brackets)
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Industrial Scientific Co P O Box 494 Fresno 9 Calif "Indusco-Lite" (Semaphore type for trucks)
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio (Truck)**
King Bee Mfg Co 2600 Washington Blvd Bellwood Ill
**MIRO-FLEX CO 1824 E 2nd St Wichita 7 Kans**
Parker Products Inc 1415 Washington Ave S Minneapolis 4 Minn "Parker Direct-A-Lite"
Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo "Fineline" (Truck)
Ring-Wald Products Inc 123 N Lowry Ave Springfield Ohio (Stop semaphores for school buses)
S & M Lamp Co 2369 E 51st St Los Angeles 54 Calif (For trucks and buses)
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y (Auto bus and truck)
Sparton Automotive Div of Sparton Corp Jackson Mich (Also stop lights and combination stop and tail and conversion kits for passenger cars)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis
Trippe Mfg Co 133 N Jefferson St Chicago 6 Ill
U S Metal Products Co 1045 Atlantic Ave Brooklyn 38 N Y "U S Pioneer"
Yankee Metal Products Corp 25 Grand St Norwalk Conn

## SIGNALS, Excess Speed

AC Spark Plug The Electronics Div of General Motors Corp 1300 N Dort Highway Flint 2 Mich
**KING-SEELEY DIV KING-SEELEY CORP 315 S First St Ann Arbor Mich "K-S"**

## SIGNALS, Low Air Pressure, Brake (Auto)

Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill "Lo Vac" (Air and vacuum systems)
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Fasco Industries Inc 400 Davis St Rochester 2 N Y
Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Pressure-Clix" (Sole distributors Nason Co 20 W Washington St Clarkston Mich)
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo

## SIGNALS, Low Air Pressure (Engine)

**(Protection against lost oil)**

Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Pressure-Clix" (Sole distributors Nason Co 20 W Washington St Clarkston Mich)
Kysor Heater Co 1100 W Wright St Cadillac Mich "Kysor Pressurestat"
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

## SIGNALS, Oil Level

**KING-SEELEY DIV KING-SEELEY CORP 315 S First St Ann Arbor Mich "K-S"**

## SIGNALS, Water Temperature (Auto, Truck, Bus)

**(Protection against overheating)**

Hawk Tool & Engineering Co 20 W Washington St Clarkston Mich "Thermo-Clix" (Sole distributors Nason Co 20 W Washington St Clarkston Mich)
Kysor Heater Co 1100 W Wright St Cadillac Mich "Kysor Alarmstat"
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

## SILENCERS, Carburetor Intake

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich
**AIR-MAZE CORP 25000 Miles Rd Cleveland 28 Ohio**
Fram Corp Pawtucket Ave Providence 16 R I
United Specialties Div Novo Industrial Corp 9705 Cottage Grove Ave Chicago 28 Ill

## SILICONE FLUID

**DOW CORNING CORP Midland Mich**

General Electric Co Silicone Products Dept Waterford N Y "G-E"
Silicones Div Union Carbide Corp 270 Park Ave N Y 17 N Y "Union Carbide"

**SILICONE RUBBER—See Rubber, Silicone**

**SIREN HORNS—See Horns, Siren**

**SIX WHEEL ATTACHMENTS—See Axle Units, Third for Trucks**

**SKIN PROTECTION COMPOUNDS — See Compounds, Skin Protection**

## SLEEVES, Cylinder

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Badger Mfg Co 1505 City Ct Marinette Wis
Campbell Wyant & Cannon Foundry Co Muskegon Mich (Centrifugally cast)
Dura-Bond Bearing Co 3201 Ash St Loma Verde Ave Palo Alto Calif "Dura-Cast"
Frank Foundries Corp 2020 Third Ave Moline Ill "Frankite"
Hub City Iron Co 218 First Ave SW Aberdeen S D
Janney Cylinder Co 7401 State Rd Philadelphia 36 Pa (Special to order)
McQuay-Norris Mfg Co 2320 Marconi St St Louis Mo
Nylen Products Inc U S 12 Bridgman Mich
**SEALED POWER CORP 2001 Sanford St Muskegon Heights Mich**
Shenango Furnace Co Centrifugal Cast Products Div Dover Ohio (Centrifugally cast)
Thompson Products Michigan Div Thompson-Ramo-Wooldridge Inc 34201 Van Dyke Ave Warren Mich (Heavy duty engine)
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Versnick Mfg Co Madisonville Ky (Dry type)
White Machine Works 1401 Bellevue Ave Eau Claire Wis "Superior"

**SLIDE FASTENERS—See Fasteners, Slide**

**SLIDE RULES—See Rules, Slide**

**SLITTING MACHINES—See Machine, Slitting**

**SLOTTERS—See Machines, Slotting**

**SLOTTING BLADES, SCREW—See Blades, Metal Slitting and Screw Slotting**

**SNAP FASTENERS—See Fasteners, Snap**

**SNUBBERS—See Straps, Rebound**

## SOCKETS, Lamp (Electric)

A M P Inc Eisenhower Blvd Harrisburg Pa
Carr Fastener Co 31 Ames St Cambridge 42 Mass
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe" (Headlamp assemblies)
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Eagle Electric Mfg Co 23-10 Bridge Plaza South Long Island City 1 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 33 N Y
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Watts Electric & Mfg Co 2222 E Maple Rd Birmingham Mich

**SOCKETS WRENCH—See Wrenches, Socket**

## SOCKETS and SLEEVES, Drill

Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio
Scully-Jones & Co 1977 S Rockwell St Chicago Ill "Scully-Jones" "Use-Em-Up"
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich

## SOLDER

All-State Welding Alloys Co 249 Ferris Ave White Plains N Y (Silver)
Alpha Metals Inc 56 Water St Jersey City N J "Alpha" (Acid core rosin core and solid wire sheet and body)
American Platinum & Silver Div Engelhard Industries Inc 231 N J R R Ave Newark 5 N J
Atomized Materials Co 207 Rauch Bldg Pittsburgh 5 Pa "Kwikmetal" (Body)
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn 7 N Y (Aluminum and body)
Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich
Bunker Hill Co Fifth Floor 600 Market St San Francisco 4 Calif (Bar wire strip core)
Carborundum Co Buffalo Ave Niagara Falls N Y
Dayton Die Casting Co 303 Keowee St Dayton Ohio
Division Lead Co 7742 W 61st Pl Summit Ill "Divco"
Dunton Co M W 350 Kinsley Ave Providence R I "Nokorode" "Ideal" "Gem" "Kwik" (Core; "Dunton" body; "General" "Bond" "Super" plain)
Farrelloy Co 1243 N 26th St Philadelphia 21 Pa "Farco" "Farrelloy" "Elied" (Wire acid core and rosin core)
Federated Metals Div American Smelting & Refining Co 120 Broadway New York 5 N Y "Federated" (Filler and wire; "Star" body; "Federated Castomatic" bar and ingot; "Federated-Gardiner" acid and rosin core)
Handy & Harman 82 Fulton St New York 38 N Y "Easy-Flo" "Sil-Fos" (Sliver)
Hewitt Metals Corp 12th St at Stanley Ave Detroit 8 Mich (Ingot bar wire acid and rosin core; also body solder in ingot bar and cake)
Hollingshead Corp R M Ninth & Cooper Sts Camden N J (Radiator)
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa "Alumaweld"
Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill (Wire body and radiator)
Lenk Mfg Co Franklin Ky (Bar and wire)
Lumen Bearing Co 197 Lathrop St Buffalo 12 N Y
Magic Iron Cement Co 14215 Caine Ave Cleveland 28 Ohio
Makepeace Co D E Dunham & Pine Sts Attleboro Mass (Silver and gold)
Marson Corp 115 Mill St Revere 51 Mass "Pro" (Epoxy for bodies; "Black" polyester for bodies)
Modern Engrg Co 3411 Pine Blvd St Louis 3 Mo "Meco"
National Lead Co 111 Broadway New York 6 N Y "Dutch Boy" (Body acid core and solid wire)
New York Solder Co 684 E 133rd St New York 54 N Y "Standard" (Acid core and rosin core; "Sure Flux" solid wire bar and body)
North American Smelting Co Marine Terminal Wilmington Del (Body bar wire ingot ribbon and flux-filled)
Oatey Co L R 4700 W 160th St Cleveland 35 Ohio (Body; wire; acid and rosin core)
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko" (Body)
Presstite-Keystone Engrg Products Co 3900 Chouteau St St Louis 10 Mo
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
River Smelting & Refining Co 4195 Bradley Rd Cleveland 1 Ohio "River RS" (Body)
Swiss Laboratory 1533 Hamilton Ave Cleveland 14 Ohio (Body acid core and solid wire)
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 R I (Silver)
Wayne Chemical Products Co Copeland Ave & M C R R Detroit Mich
Woodhill Chemical Sales Corp 1390 E 34th St Cleveland 14 Ohio "Duro-Plastic"

## SOLDER, Aluminum

All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "Rubbon"
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
Aluminum Fix Co 1860 E 123rd St Cleveland Ohio
Belmont Smelting & Refining Works 326a Belmont Ave Brooklyn N Y
Ensign Products Co 3528 E 76th St Cleveland 5 Ohio
Eutectic Welding Alloys Corp 40-40 172nd St Flushing 58 N Y "AluTin" "EutecRod" "AutoChemic"
Hewitt Metals Corp 12th St at Stanley Ave Detroit 8 Mich
Johnson Mfg Co 616 N First Ave Mt Vernon Iowa "Alumaweld"
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Lenk Mfg Co Franklin Ky "Super"
National Aluminum Co 1912 Edgewood Ave Racine Wis "Stick-Well"
Niagara Falls Smelting & Refining Div Continental Copper & Steel Industries Inc 2204 Elmwood Ave Buffalo 23 N Y "Falls"
River Smelting & Refining Co 4195 Bradley Rd Cleveland 1 Ohio "River RS"

**SOLDER, BODY—See under Solder**

**SOLDER GASKETS AND WASHERS — See Gaskets, Lead and Lead Alloy**

**SOLDERING FLUX — See Flux, Brazing, Welding and Soldering**

**SOLDERING LUGS—See Lugs, Soldering**

**SOLDERING MACHINES—See Machines, Soldering**

**SOLDER SPRAY GUNS—See Sprayers, Molten Metal**

## SOLENOIDS, Direct Current

Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

**SOLVENT RECOVERY STILLS—See Stills, Solvent Recovery**

## SOLVENTS, Oil and Grease Removing

**(See also Cleaners, Metal)**

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich "Acme Klix"
Atomized Materials Co 207 Rauch Bldg Pittsburgh 5 Pa "Kwik-Solv"
Barr & Co W M 2336 S Lauderdale St Memphis 6 Tenn "Magic Cleaner" "Dip Kleen" (Sole distributors Klean Strip Co Box 3565 Memphis 6 Tenn)
Bendix Products Div Bendix Corp South Bend 20 Ind "Bendix Econoclene" "Bendix Metalclene"
Blakeslee & Co G S 1844 S Laramie Ave Cicero 50 Ill "Blacosolv"
Brulin & Co 2939 Columbia Ave Indianapolis 7 Ind "Brulin's" "Brulinsolv" "Safety Solv"
Buchanan Chemical Co C G 4640 Baker Rd Cincinnati 12 Ohio "Byr-Ma-Co"
Circo Co 51 Terminal Ave Clark N J "Circo-Solv" "Cub" "Per-Solv"
Cities Service Oil Co (Pa) 60 Wall Tower New York 5 N Y "Cities Service" "Solvent 26A"
Clayton Mfg Co 401 N Temple City Blvd El Monte Calif "Kerrick Kermulso"
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa "Cyclodiene" "Percyclodiene" "Dicyclodiene" "Tricyclodiene" "Polydiene" Tetradiene" "Methanted" "Trisolvadiene" "Chem-Solv"
Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill "D C"
Dacar Chemical Products Co Wabash & McCartney Sts Pittsburgh 20 Pa "Darsol"
**DETREX CHEMICAL INDUSTRIES INC Box 501 Detroit 32 Mich "Drex-Foam" "Perm-A-Clor"**
Diversey Corp 212 W Monroe St Chicago Ill
**DOW CHEMICAL CO Midland Mich "Chlorothene" "Alk-Tri" "Neu-Tri"**
Drew & Co E F Automotive Chemicals Div 15 E 26th St New York N Y "Ameroid Duosol" "Drew-Ameroid" & "Red-D-Duosol"
Du Bois Chemicals Inc Seventh & Broadway Cincinnati 2 Ohio "Actusol" "D-Carb" "Sprex AC"
**DU PONT DE NEMOURS & CO E I ELECTROCHEMICALS DEPT-Chlorine Products Div Wilmington 98 Del "Perclene" (Perchlorethylene "Triclene" trichlorethylene)**
Esso Standard Div of Humble Oil & Refining Co 15 W 51st St New York 19 N Y "Solvesso" "Varsol"
Ewing Mfg Co 2545 N W 10th St Oklahoma City Okla
Fine Organics Inc 211 E 19 St New York 3 N Y "FO"
Graymills Corp 3705 N Lincoln Ave Chicago 13 Ill
Gunk Laboratories Inc 630 N Harlem Ave River Forest Ill "Gunk Super Concentrate" "Gunk GP" "Gunk Engine Brite" "Neo Met"
Harley Soap Co Pierce & Orthodox Sts Philadelphia 37 Pa "Harco"
Heet Div of Demert & Dougherty Inc 5000 W 41st St Chicago 50 Ill "Kleen-Off"
Hollingshead Co R M 840 Cooper St Camden N J "Whiz Dip-Zoff" "Whiz Ho-Zof" (For garage use)
Homestead Valve Mfg Co (Hypressure Jenny Div) Narrows Run Road Coraopolis Pa "Hypressure Jenny"
Industrial Chemical Products Co 3769 Bellevue Ave Detroit 7 Mich "Industrosolv"
Jarrett Co Cecil H Mt Olive Rd Newton N C
**KELITE CORP 1250 N Main St Los Angeles Calif**
Klem Chemicals Inc 14401 Lanson St Dearborn Mich "Rust Sol"
Krylon Inc Ford & Washington Sts Norristown Pa
L & R Mfg Co 577 Elm St Kearny N J
Lord Chemical Co 2068 S Queen St York Pa "Lorco"
Lubri-Loy Co 6319 Wilson St St Louis 10 Mo "Top-C"
Magnus Chemical Co 185 South Ave Garwood N J "Magnus" "Magnusol"
Manpro Corp 1360 Hilton Rd Ferndale 20 Mich
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio "Imperial Wash-er Clean"
Mitchell-Bradford Chemical Co Wampus Lane Milford Conn "Witch Oil"
Narda Ultrasonics Corp 625 Main St Westbury L I N Y "Blast" (For ultrasonic cleaning)
**OAKITE PRODUCTS INC 19 Rector St New York 6 N Y "Oakite" "CrysCont"**
Octagon Process Inc 15 Bank St Staten Island 1 N Y "Klearall" "Octastrip"
Panther Chemical Co P O Box 711 Fort Worth Tex "Bi-Phase" "Panther"
Park Chemical Co 8074 Military Ave Detroit 4 Mich "Parko"
Peck's Products Co 610 E Clarence Ave St Louis 15 Mo "Pepco"
Penetone Co 74 Hudson Ave Tenafly N J "Aqua-Seal" "Dunkit" "Buxite" "Formula 602" "Hi-Flash" "Lumabrite" "Major" "Penesolve" "Navee 42" "Steam-Kleen"
Pennsalt Chemicals Corp 3 Penn Center Philadelphia 2 Pa
Penray Co 1532 W Fulton St Chicago 7 Ill
Permacel U S Highway 1 New Brunswick N J
Permatex Co 300 Broadway Huntington Station N Y "Solvo Rust"
Philadelphia Quartz Co 1146 Public Ledger Bldg 6th & Chestnut Sts Philadelphia 6 Pa "Metso 66"
Phillips Mfg Co 3475 Touhy Ave Chicago 45 Ill "Phillsolv" "Phillex" "Kold-Phil"
Plasti-Kote Inc 9801 Harvard Rd N W Cleveland 5 Ohio
Quick Charge Div Line Scale Co 3737 N W 37th St Oklahoma City 4 Okla "Quick-So"
Radiator Specialty Co 1400 W Independence Blvd Charlotte 1 N C "Gunk"
Rust Master Chemical Corp 175 Union St Worcester Mass "Parts Master"
Service Supply Co 1115 Seventh St Denver 4 Col "Solvo" "D-Greso"
Shaler Co Waupun Wis (Oil and carbon)
Shell Oil Co 50 W 50th St New York 20 N Y (Oil)
Siloo Inc 9 E 45th St N Y 17 N Y "Petisol"
Speco Inc 7308 Associate Ave Cleveland 9 Ohio "Vinsol"
Standard Oil of Calif Western Operations Inc 225 Bush St San Francisco 20 Calif "Calso" "Chevron" "S O" "PDQ" "Standard"
Stanley Co John T 642 W 30th St New York 1 N Y
Sun Oil Co 1608 Walnut St Philadelphia 3 Pa "Sun Siprits" "Sunoco Spirits"
Tumbler Laboratories Inc J A 423 S Hanover St Baltimore 1 Md
Turco Products Inc 24600 S Main St North Wilmington Calif
Union Carbide Chemicals Co 270 Park Ave N Y 17 N Y "Cellosolve"
Virginia-Carolina Chemical Corp 401 E Main St Richmond Va "V-C Fit" "V-C Jet" "V-C Quick" "V-C Zip"
White & Bagley Co 100 Foster St Worcester 8 Mass
Wilbur & Williams Co 650 Pleasant St Norwood Mass "W & W"
Wyandotte Chemicals Corp J B Ford Div Wyandotte Mich "Nordall"

**SOUND DEADENING MATERIAL—See Insulation, Felt, Hair, Paper, Etc.; Insulation, Heat and Sound (Liquid); also Pads, Insulation (Heat, Cold & Sound)**

**SPACER TUBES—See Tubes, Spacer**

## SPACERS, Machinery

Detroit Stamping Co 350 Midland Ave Detroit 3 Mich "De-Sta-Co" (Milling machine arbor)
Scherr Co George 200 Lafayette St New York 12 N Y "Euco" (Milling machine)
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Whitehead Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich

**SPACING WASHERS—See Washers, Spacing**

**SPARK ARRESTORS, EXHAUST—See Arrestors, Spark (Exhaust)**

**SPARK COILS—See Coils, Ignition**

**SPARK PLUG EQUIPMENT — See Cables (Sets); also Terminals, Wire**

**SPARK PLUG PARTS—See also Insulators, Spark Plug**

**SPARK PLUGS—See Plugs, Spark**

**SPARKING POINTS — See Points, Contact (Ignition)**

**SPEED ALARMS (SAFETY) — See Signals, Excess Speed**

**SPEED CONTROLLERS—See Governors, Engine**

**SPEED REDUCERS—See Reducers, Speed**

**SPEED REGULATORS, ELECTRIC MOTOR —See Regulators, Speed (Electric Motor)**

**SPEEDOMETER PARTS — See Dials, Instrument; Gears and Pinions, Speedometer; Parts, Speedometer; also Shafting, Flexible**

**SPEEDOMETER TESTING INSTRUMENTS —See Instruments, Speedometer Testing**

## SPEEDOMETERS

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**

Electric Autolite Co Toledo 1 Ohio

Jones-Motorola Corp 432 Fairfield Ave Stamford Conn (For fire engines trucks racing cars etc)

**KING - SEELEY DIV KING - SEELEY CORP K-S Bldg 315 S First St Ann Arbor Mich "K-S"**

Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago 14 Ill (Magnetic and electric)

## SPINDLES, Boring, Drilling, Grinding, Milling and Cutting Machine

Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio (Boring grinding and milling)

**EX-CELL-O CORP 1200 Oakman Blvd Detroit 32 Mich (Boring and grinding)**

James Engrg & Mohry Co 11368 Allen Rd Taylor Mich "Jemco" (Grinding and milling)

**POPE MACHINERY CORP 261 River St Haverhill Mass**

**SEIBERT & SONS INC 1008 E 24th St Chenoa Ill (Drilling)**

Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio (Drilling and grinding)

**SPLINE MILLING MACHINES — See Machines, Milling (Spline)**

**SPLINE ROLLER MACHINES—See Machines, Spline Roller**

**SPOT FACING TOOLS—See Tools, Spot Facing**

**SPOTLIGHTS—See Lamps, Fog, Road and Spot**

**SPRAY BOOTH COMPOUNDS — See Compounds, Spray Booth**

## SPRAYERS, Composition

**(For sound deadening on car bodies)**

**BINKS MFG CO 3120 Carroll Ave Chicago 12 Ill**

Black Mfg Co 403 Penn St Baltimore 30 Md "Muff Gun"

DeVilbiss Co 300 Phillips Ave Toledo 1 Ohio

Gray Co 60 11th Ave N E Minneapolis 13 Minn "Graco"

Grover Mfg Co 850 E Valley Blvd San Gabriel Calif

Lawson Co F H Evans & Whately Sts Cincinnati 4 Ohio

Lincoln Engrg Co 4010 Goodfellow Blvd St Louis 20 Mo

Metallizing Co of America 3520 W Carroll Ave Chicago 24 Ill "Mogul"

**RAND DEVELOPMENT CORP 13000 Deise Ave Cleveland 10 Ohio (For fiber glass resin etc)**

Stewart-Warner Corp Alemite Div 1826 Diversey Parkway Chicago 14 Ill "Alemite-Versatal"

## SPRAYERS, Molten Metal

Albertson & Co 3100 Lowell Ave Sioux City Iowa "Sioux"

Metallizing Enigneering Co 1101 Prospect Ave Westbury L I N Y "Metco"

Wall Colomonoy Co 19345 John R St Detroit 3 Mich "Spraywelder"

## SPRAYERS, Paint, Varnish and Lacquer

**(See also Machines, Painting)**

Aro Equipment Corp Bryan Ohio (Airless)

**BINKS MFG CO 3120 Carroll Ave Chicago 12 Ill**

Black Mfg Co 403 Penn St Baltimore 30 Md "Millburn" "Black Arrow"

Brown Corp W R 2701 N Normandy Ave Chicago 35 Ill "Speedy"

Campbell-Hausfeld Co 211 Railroad Ave Harrison Ohio "Pressure Maid" "Pressure Princess" "Pressure Queen" "Pressure Pal"

Cleveland Container Co Abrasive Div 3571 W 62nd St Cleveland 2 Ohio (Spray gun heads for paint cans)

**DEVILBISS CO 300 Phillips Ave Toledo 1 Ohio**

G M Co Mfg Inc 13-08 43rd Ave Long Island City L I N Y

Gray Co 60 11th Ave N E Minneapolis 13 Minn "Paintmaster"

Kelite Corp 1250 N Main St Los Angeles Calif

M & E Mfg Co 2571 Winthrop Ave Indianapolis 5 Ind "M & E" "Micro-Spray"

Master Mfg Co 811 W Cabrini St Chicago 7 Ill "[illegible]er" "Trim-Ace-Rex" (Guns)

Nordson Corp Jackson St Amherst Ohio (Airless)

Paasche Airbrush Co 1909 Diversey Parkway Chicago 14 Ill

Pioneer Air Compressor Co 120 Chambers St New York 7 N Y

Plummer Spray Equipment Co 700 Filmore St Napoleon Ohio "Handigrip" "Plummer"

Ransburg Electro-Coating Co Box 23122 Indianapolis 23 Ind (Electrostatic)

Sharpe Mfg Co 1224 Wall St Los Angeles 15 Calif

Spray Engineering Co 100 Cambridge St Burlington Mass "Spraco"

Spraying Systems Co 3200 Randolph St Bellwood Ill "Autojet" (Hydraulic)

Thomas Industries Inc Electric Sprayit Div 14th & Illinois Sts Sheboygan Wis "Sprayit"

**SPRAYING BOOTHS—See Booths, Spraying (Enamel, Lacquer and Paint)**

**SPRING MACHINERY AND TOOLS — See Furnaces, Spring Fitting; Machines, Coiling (Spring); Machines, Grinding, (Spring, Washers, etc.); Machines, Spring Making; Machines, Testing (Spring); Tools, Spring Coiling; also Tools, Spring Testing**

**SPRING PARTS AND ATTACHMENTS—See Bolts, Spring; Bumpers, Spring; Clips, Spring (Auto); Inserts, Spring Leaf; Links, Spring Shackle; Parts, Spring; also Shackles, Spring**

## SPRINGS, Air (Auto, Truck, Trailer and Bus)

Air Lift Co 2328 W Main St Lansing Mich "Air Lift (Auto "Loadlifter" truck)

Firestone Industrial Products Co Noblesville Ind "Airide"

General Tire & Rubber Co Air Spring Div Englewood & Holmes Ave Akron 9 Ohio

Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio (Truck and bus)

United Mfg Co 5250 Dobeckmun Ave Cleveland 2 Ohio "Caravan" (Trailer)

United States Rubber Co Rockefeller Center 1230 Ave of the Americas N Y 20 N Y

## SPRINGS, Flat or Coil

A K Tool Co Route 22 Mountainside N J (Small)

Accurate Spring Mfg Co 3811 W Lake St Chicago 24 Ill (Small)

All-O-Matic Mfg Corp 2099 Jericho Turnpike New Hyde Park N Y (Clutch)

All-Rite Mfg Co 7333 W Wilson Ave Chicago 31 Ill (Coil)

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite" (Valve)

American Motor Products Co Fond du Lac Wis "Ampco" (Fuel and vacuum coil)

American Steel & Wire Div United States Steel Corp Rockefeller Bldg Cleveland 13 Ohio

**AUTOMATIC SPRING COILING CO 4045 W Thorndale Ave Chicago 46 Ill**

Automotive Rubber Co 12584 Beech Rd Detroit 39 Mich (Rubber and plastic covers)

Barnes Wallace Div Associated Spring Corp 18 Main St Bristol Conn

Benz Spring Co 321 N W Ninth Ave Portland 9 Ore

**BURTON AUTO SPRING CORP 2433 W 48th St Chicago 32 Ill (Coil)**

Champ Spring Co 2107 Chouteau Ave St Louis 3 Mo (Door lock and starter pedal)

Chatillon & Sons John 85-93 Cliff St N Y 38 N Y "Iso-Elastic" (Small)

Cleveland Graphite Bronze Div of Clevite Corp 17000 St Clair Ave Cleveland 10 Ohio "Monmouth" (Knee action coil)

Colorado Fuel & Iron Corp Wickwire Spencer Steel Div 575 Madison Ave N Y 22 N Y "CF&I-Wickwire" (Valve clutch starter and pedal release)

Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio (Small)

Danly Machine Specialties Inc 2100 S Laramie Ave Chicago 50 Ill (Coil)

Dunbar Bros Div Associated Spring Corp Bristol Conn

**EATON MFG CO SPRING DIV 9771 French Rd Detroit 34 Mich**

Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich (Small)

Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis (Valve)

Kokomo Spring Co Firmin & La Fountain St Kokomo Ind

Master Parts Div Airtex Products Inc Fairfield Ill

Michigan Spring Co 2700 Wickham Dr Muskegan Mich

Moog Industries Inc 6565 Wells Ave St Louis 33 Mo (Coil)

Perfect Parts Inc 43 W 23rd St N Y 10 N Y (Clutch brake starter pedal etc)

Perfection Gear Co 152nd St & Vincennes Ave Harvey Ill (Valve and clutch)

Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y (Brake carburetor and starter pedal)

Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa

Republic Engrg & Mfg Co 6565 Wells St St Louis 14 Mo "Remco"

Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC" (Valve)

Rockwell-Standard Corp Spring Div 301 East St Chelsea Mich

Service Spring Co 701 St Paul St Indianapolis 6 Ind (Coil)

Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill (Flat)

Timms Spring Co Taylor & Boston Sts Elyria Ohio (Small)

Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio (Valve also coil for front wheel suspension and shock absorber)

Triangle Auto Spring Co Maloney Rd & B & O RR Dubois Pa

U S Steel Wire Spring Co 7800 Tinney Ave Cleveland 5 Ohio

Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis

Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## SPRINGS, Helper

Champ-Items Inc 6191 Maple Ave St Louis 14 Mo

Green Spring Co 4527 Lancaster Ave Philadelphia 31 Pa "Spring Saver"

Koenig Iron Works Inc PO Box 7726 Houston 10 Tex

Laher Spring & Electric Car Corp 2615 Magnolia St Oakland 7 Calif

Monroe Auto Equipment Co 1426 E First St Monroe Mich "Monroe Load-Leveler"

Moog Industries Inc 6650 Easton Ave St Louis 4 Mo

Pickwick Co 1110 Glass Rd NE Cedar Rapids Iowa

Prior Products Inc 4828 Racell St Dallas Tex

Service Spring Co 701 St Paul St Indianapolis 6 Ind "Service-Indianapolis"

Standard Supply Co 5920 Bryant St Pittsburgh 6 Pa "Stanalevel"

Trainor National Spring Co Box 391 New Castle Ind

Tuthill Spring Co PO Box 47 Momence Ill

Vulcan Spring Co PO Box 47 Momence Ill

## SPRINGS, Leaf

Benz Spring Co 321 N W Ninth Ave Portland 9 Ore

Betts Spring Co 868 Folsom St San Francisco Calif

**BURTON AUTO SPRING CORP 2433 W 48th St Chicago 32 Ill**

Champ Spring Co 2107 Chouteau Ave St Louis Mo "Champion"

**DETROIT STEEL PRODUCTS DIV OF FENESTRA INC 6000 Caniff Ave Detroit 12 Mich "DSP"**

**EATON MFG CO SPRING DIV 9771 French Road Detroit Mich**

Iron City Spring Co 2920 Smallman St Pittsburgh Pa

Laher Spring & Electric Car Corp 2615 Magnolia St Oakland 7 Calif

Liggett Spring & Axle Co Monongahela Pa (Auto truck and trailer)

**MATHER SPRING CO P O Box 6695 Toledo 1 Ohio**

Moog Industries Inc 6565 Wells Ave St Louis 33 Mo

Republic Engrg & Mfg Co 6565 Wells Ave St Louis 14 Mo "Remco"

Rheem Automotive Co 601 S Placentia Ave Fullerton Calif (Suspension)

Rockwell-Standard Corp Spring Div 301 East St Chelsea Mich

Service Spring Co 701 St Paul St Indianapolis 6 Ind "Genuine Service"

Spring Perch Co Hamburg Turnpike (P O Box 6) Lackawanna 18 N Y

Stanley Spring Works Inc 1330 N Cameron St Harrisburg Pa

Swartz Products Inc 1230 W School St Chicago 13 Ill

Trainor National Spring Co Box 391 New Castle Ind
Triangle Auto Spring Corp Maloney Rd & B & O R R Dubois Pa
Tuthill Spring Co P O Box 47 Momence Ill
Vulcan Spring Co Box 47 Momence Ill

## SPRINGS, Seat or Upholstery

Barber Mfg Co 1824 Brown St Anderson Ind
Bostrom Corp 133 W Oregon St Milwaukee 4 Wis
Fort Pitt Mfg Co 1501 Preble Ave N S Pittsburgh 33 Pa
Goshen Cushion & Body Co N Second St Goshen Ind
Rockwell-Standard Corp Seating Div 7035 W 65th St Chicago 38 Ill
Royersford Spring Co First Ave & Main St Royersford Pa "Royco" "Royco Lace Web" (For trucks and buses)
Sagless Auto Seat Co 2501 S State St Chicago Ill
Stubnitz-Greene Corp 404 Logan St Adrian Mich (Seat)
Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

**SPRINGS, STARTING MOTOR DRIVE—See Parts, Starting Motor Drive**

## SPRINGS, Torsion Bar

General Tire & Rubber Co Englewood & Holmes Ave Akron 9 Ohio "Neidhart" (For trailers and buses)
Mather Spring Co P O Box 6695 Toledo 1 Ohio (For autos buses trucks and trailers and off-the-road equipment)

**SPROCKET WHEELS, POWER TRANSMISSION — See Chains and Sprockets, Power Transmission**

## SPROCKETS, Machined

**(For sprocket blanks — See Castings; also Forgings)**

Chain Belt Co 4733 W Greenfield Ave Milwaukee 1 Wis "Rex"
Cullman Wheel Co 1344 Altgeld St Chicago 14 Ill
D & B Mfg Co 2312 S Indiana Ave Chicago 16 Ill (Timing)
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Whitney Chain Co 237 Hamilton St Hartford 2 Conn

**STACKING MACHINES—See Elevators, Industrial (Portable)**

**STAKE BODY PARTS — See Parts Stake Body (Steel)**

## STAMPINGS, Metal (Automotive)

A K Tool Co Route 22 Mountainside N J
Accurate Spring Mfg Co 3811 W Lake St Chicago 24 Ill
Adel Precision Products Div of General Metals Corp 1444 Washington Ave Huntington 4 W Va
Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Active Tool & Mfg Co 888 Clairpointe St Detroit 15 Mich
Adam & Westlake Co 1019 N Michigan St Elkhart Ind "Adlake"
Adams Co S G 920 Olive St St Louis 1 Mo
Aetna Industries 24331 Sherwood St Center Line Mich (For Ford Chrysler Packard General Motors and American Motors Corp)
Ainsworth Mfg Co Div of Precasco Corp 7635 E Davison St Detroit 12 Mich
Akron-Selle Co High & Chestnut Sts Akron 11 Ohio "Tasco"
Allied Products Corp Richard Bros Die & Prototype Div 12677 Burt Rd Detroit 23 Mich
Alofs Mfg Co 345 32nd St S W Grand Rapids 8 Mich
Alox Mfg Co 6160 Maple Ave St Louis 14 Mo
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
American Brass Co Fabricated Metal Goods Div 26 Crane St Waterbury 20 Conn
American Coil Spring Co Keating Ave at Huizenga St Muskegon Mich
American Forging & Socket Co P O Box 210 Pontiac Mich
American Metal Products Co 5959 Linsdale Ave Detroit 4 Mich
American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa
American Spring & Wire Specialty Co 816 N Spaulding Ave Chicago 51 Ill (Light)
American Stamping Co 310 E Burnham St Battle Creek Mich
American Stamping Co 26650 Lakeland Blvd Cleveland 32 Ohio
Anderson Co O L 12400 Burt Rd Detroit 28 Mich
Ansted Corp 1428 W Henry St Indianapolis 7 Ind
Anzick Mfg Co 23675 Mound Rd Van Dyke Mich
Apco Mossberg Co Lamb St Attleboro Mass
Applied Arts Corp 365 Lane Ave S W Grand Rapids 2 Mich
Arvin Industries Inc 13th St & Big Four RR Columbus Ind
Ashtabula Bow Socket Co 4212 Ann Ave Ashtabula Ohio
Atwood Vacuum Machine Co 1400 Eddy Ave Rockford Ill
Auld Co D L Fifth Ave & Fifth St Columbus 1 Ohio
Auto City Sheet Metal Co 4211 Nancy Ave Detroit 12 Mich
Automotive Rubber Co 12584 Beach Rd Detroit 39 Mich (Rubber and plastic covered)
Banner Die Tool & Stamping Co 1308 Holly Ave Columbus 8 Ohio
Barcy-Nicholson Co 8100 Joy Rd Detroit 4 Mich
Barnes Wallace Div Associated Spring Corp 18 Main St Bristol Conn
Barth Corp 12650 Brookpark Rd Cleveland 30 Ohio
Bath Co Cyril 32400 Aurora Rd Solon Ohio
Bay State Stamping Co 372 Chandler St Worcester Mass
Beatrice Steel Tank Mfg Co 700 S 7th St Beatrice Nebr.
Beck Products Corp 12255 E Eight Mile Rd Detroit 5 Mich
Bellevue Mfg Co Ashford Ave Bellevue Ohio
Bingham Stamping Div Bingham-Herbrand Corp 1062 Post St Toledo 6 Ohio
Bowen Products Corp Auburn N Y
Brandt Inc Charles T 1700 Ridgely St Baltimore 30 Md
Brewer-Titchener Corp 115 Pt Watson St Cortland N Y
Brown Corp of Ionia Inc 314 S Steele St Ionia Mich
**BROWN - LIPE - CHAPIN DIV OF GENERAL MOTORS CORP Town Line Rd Syracuse N Y (Steel or aluminum)**
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa
Burgess - Norton Mfg Co 737 Peyton St Geneva Ill
Carr Fastener Co 31 Ames St Cambridge 42 Mass
Chicago Forging & Mfg Co 2000 Southport Ave Chicago 14 Ill
Chicago Tool & Kit Mfg Co 230 N Jefferson St Chicago 6 Ill
Cinch Mfg Corp 1026 S Homan St Chicago 24 Ill
City Auto Stamping Co Div of Globe-Wernicke Industries Inc Lint & Dura Aves Toledo 12 Ohio
Cleveland Steel Products Corp 16025 Brookpark Rd Cleveland 35 Ohio
Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio
Cook Metal Works Inc 237 S Campbell Ave Mishawaka Ind
Crosby Co 183 Pratt St Buffalo 5 N Y
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Cutler Metal Products Co 1025 Line St Camden N J
Cuyahoga Products Corp 10252 Berea Rd Cleveland 2 Ohio
Cuyahoga Stamping Co 1021 Harvard St Cleveland 5 Ohio
Dahlstrom Metallic Door Co Special Products Div 429 Buffalo St Jamestown N Y
Dail Steel Products Co Main & Hosmer Sts Lansing Mich
**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Parish"**
Dayton Rogers Mfg Co 2824 13th Ave S Minneapolis 7 Minn (Small lots)
**DETROIT STAMPING CO 350 Midland Ave Detroit 3 Mich "De-Sta-Co"**
Detroit Universal Div Chrysler Corp 6455 Kingsley Ave Dearborn 1 Mich
Diener Mfg Co Geo W 400 Monticello Ave Chicago 24 Ill
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio
Doehler-Jarvis Div of National Lead Co Smead & Prospect Aves Toledo 1 Ohio
Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Dunbar Bros Div Associated Spring Corp Bristol Conn (Small)
Eastern Tool & Mfg Corp Montgomery St Belleville 9 N J
**EATON MFG CO SPRING DIV 9771 French Rd Detroit 31 Mich**
**EATON MFG CO STAMPING DIV 17877 St Clair Ave Cleveland 10 Ohio**
Eisenhauer Mfg Co P O Box 390 Van Wert Ohio
Electro Mechanical Products Co 32700 Ford Rd Garden City Mich
Engineered Products Co 129 Smith St Flint 4 Mich
Estan Mfg Co 1605 Bonner St Ferndale 20 Mich
Evans Products Co 13101 Eckles Rd Plymouth Mich
Excel Corp 1120 N Main St Elkhart Ind
Fabco Inc 1260 W Jefferson Ave Trenton Mich
Fastex Div of Illinois Tool Works 195 Algonquin Rd Des Plaines Ill
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Firestone Steel Products Co 1600 Firestone Parkway Akron 1 Ohio "Fashionized" (Aluminum)
Fitzsimons Mfg Co 3775 E Outer Drive Detroit 34 Mich
Forsyth Metal Goods Co Elm St East Aurora N Y
Fort Pitt Mfg Co 1501 Preble Ave N S Pittsburgh 33 Pa
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio
GGG Metal Stamping Co Box 114 Warren Pa
Garland Mfg Co 10533 Gratiot Ave Detroit 13 Mich
**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa "Diamond G"**
General Pressed Metal Corp 926 Wolf St Syracuse 8 N Y
General Tire & Rubber Co Industrial Products Div Wabash Ind
Gertenslager Co Wooster Ohio
Geuder Paeschke & Frey Co 324 N 15th St Milwaukee 1 Wis
Guarantee Specialty Mfg Co E 96th St & N Y C RR Cleveland 8 Ohio
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
H & P Die & Stamping Co 13945 Triskett Rd Cleveland 11 Ohio
Hall Lamp Co C M 1035 E Hancock Ave Detroit Mich
Hardy Mfg Corp W Pearl St Union City Ind
Haviland Co Arnold 1008 S Jackson St Defiance Ohio
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Houdaille Industries Inc Detroit Div 2660 E Grand Blvd Detroit 11 Mich
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich
Hurd Lock & Mfg Co Almont Mich
Ingersoll Products Div Borg-Warner Corp 1000 W 120th St Chicago 43 Ill
Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind
International Stamping Co E Wisconsin St Hartford Wis
Johnson Sheet Metal Works Corp 620 S J St Richmond Ind
Kaiser Metal Products Co Radcliffe St Bristol Pa
Kalamazoo Stamping & Die Co 1815 Palmer St Kalamazoo Mich
Kelsey-Hayes Co Heintz Div Front St & Olney Ave Philadelphia 20 Pa
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kickhaefer Mfg Co 903 S Second St Milwaukee 4 Wis
Kongislow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio
Laminated Shim Co 62 Union St Glenbrook Conn
Lansing Stamping Co 1159 S Pens Ave Lansing 2 Mich
Larson Tool & Stamping Co Olive St Attleboro Mass
Lewis Spring & Mfg Co 2652 W North Ave Chicago 47 Ill
Lidseen of North Carolina Inc 1000 First St Hayesville N C
Logan Co Cabel St Louisville 16 Ky
Long Mfg Div Borg-Warner Corp 12501 Dequindre St Detroit 12 Mich
Lothrop Co Frank B 965 W Grand St Elizabeth N J
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
McDowell Mfg Co 301 Stanton Ave Pittsburgh 9 Pa
McLaughlin Body Co 2430 Third Ave Moline Ill
Marlex Mfg Co 415 Wells St Caro Mich
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio "M-P"
Mather Spring Co P O Box 6695 West Toledo Sta Toledo 12 Ohio (Light)
May-Fran Engineering Inc 1710 Clarkstone Rd Cleveland 12 Ohio
Melrath Supply & Gasket Co Tioga & Memphis Sts Philadelphia 34 Pa
Mercury Aircraft Inc Hammondsport N Y
Metal Specialty Co Este Ave & B & O RR Cincinnati 32 Ohio
Michigan Plating & Stamping Co 740 Ann St N W Grand Rapids Mich
Midwest Body & Mfg Div Electrographic Corp S Central St Paris Ill

## STAMPINGS, Metal (Automotive)—cont'd

Milwaukee Stamping Co 800 S 72nd St Milwaukee 14 Wis
Mirro Aluminum Co Manitowoc Wis (Aluminum)
Mitchell Metal Products Inc 6501 Cedar Ave Cleveland 3 Ohio
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmore Sts Philadelphia 36 Pa
Monarch Rubber Co Hartville Ohio
Monroe Auto Equipment Co 1426 E First St Monroe Mich
Morris Co George W 427 Lake St Racine Wis
Morrison Steel Products Inc 601 Amherst St Buffalo 7 N Y
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich
National Lock Co 1902 Seventh St Rockford Ill
Noera Mfg Co 85 Griggs St Waterbury 20 Conn
Northern Engraving & Mfg Co 4th & Vine Sts La Crosse Wis (Anodize aluminum)
Novi Governor Div Continental Motors Corp 25460 Novi Rd Novi Mich
Oneida Div Marmon-Herrington Co 1511 W Washington St Indianapolis Ind
Orrville Body Co Orrville Ohio
Paramount Fabricating Co 13595 Helen Ave Detroit 12 Mich
Parish Pressed Steel Div of Dana Corp Robeson & Weiser Sts Reading Pa
Parkview Metal Products Inc 4931 W Armitage Ave Chicago Ill
Parsons Co 15000 Oakland Ave Detroit 3 Mich
Patton-MacGuyer Co Baker St & Virginia Ave Providence 5 R I
Peerless Novelty Co First & Fulton Sts Grand Haven Mich
Peninsular Metal Products Corp 1365 Jarvis St Detroit 20 Mich
Penn-Michigan Mfg Corp 220 S Kirk St W Lafayette Ohio
Peters Stamping Co Mulberry St Perrysburg Ohio (Steel and aluminum)
Pittsburgh Forgings Co Thorn St Coraopolis Pa
Plume & Atwood Mfg Co Main St Thomaston Conn
Powell Pressed Steel Co Erie St Hubbard Ohio
Pressed Steel Co 705 N Pennsylvania Ave Wilkes-Barre Pa
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Production Die & Stamping Co 1834 Garfield Ave Detroit 7 Mich
Purolator Products Inc Wayne Div Wayne Mich
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio
Raymond Mfg Div Associated Spring Corp 226 S Center St Corry Pa
Reichert Float & Mfg Co 2242 Smead Ave Toledo 7 Ohio
Rex Metal Parts Co 1295 W 78th St Cleveland 2 Ohio
Rheem Automotive Co 601 S Placentia Ave Fullerton Calif
Robin Products Co 27027 Groesbeck Hwy Warren Mich
Rockford Metal Products Inc 716 Cedar St Rockford Ill
Rockwell-Standard Corp Spring Div 301 East St Chelsea Mich
Rockwell-Standard Corp Stamping Div 1013 Oswego St Utica 1 N Y "Bossert"
Ryan Industries Inc 888 E 70th St Cleveland 3 Ohio
Ryerson & Haynes Inc 2307 E Ganson St Jackson Mich
Saco-Lowell Automotive Div Saco-Lowell Shops Box 111 Saco Me
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn
Service Products Corp 201 S Rural St Indianapolis 1 Ind
Sheet Metal Specialty Div of Follansbee Steel Corp State St Follansbee W Va
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland Ind
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Smith Corp A O 3533 N 27th St Milwaukee 1 Wis
Soss Mfg Co 21777 Hoover Rd Warren Mich
Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill (Punch press)
Spring Perch Co Hambury Turnpike Lackawanna 18 N Y
Standard Brass Corp 915 W Perry St Belvidere Ill
Stanley Works Pressed Metal Div 195 Lake St New Britain Conn
Stant Mfg Co 1620 Columbia St Connersville Ind
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sterling Stamping Co 21680 W 8 Mile Rd Detroit 19 Mich
Stimpson Co Edwin B 70 Franklin Ave Brooklyn 5 N Y
Stolitzka & Son Frank J 231 N Adams St Akron 4 Ohio
Superior Metal Products Co 3180 Auburn Rd Auburn Heights Mich (Small)
Superior Metal Products Inc Branson & 18th Sts Marion Ind
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
Taylor Products Div Tecumseh Products Co 1100 W Beardsley Ave Elkhart Ind
Timms Spring Co Taylor & Boston Sts Elyria Ohio (Light)
Titchener & Co E H 67 Clinton St Binghamton N Y (Light)
Toledo Pressed Steel Co 397 Phillips Ave Toledo 12 Ohio
Toledo Stamping & Mfg Co 99 Fearing Blvd Toledo Ohio

**TRANSUE & WILLIAMS STEEL FORGING CORP 562 Ely St Alliance Ohio**

Tubing Seal Cap Co Div of Vio-Stan Industries Inc 808 W Santa Anita St San Gabriel Calif (Small)
United Metal Craft Co 800 Lowell St Ypsilanti Mich
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
United Shoe Machinery Corp 140 Federal St Boston 7 Mass
United Specialties Div Novo Industrial Corp 9705 Cottage Grove Ave Chicago 2 Ill
U S Steel Wire Spring Co 7800 Finney Ave Cleveland 5 Ohio
Veet Industries 25753 Groesbeck Highway E Detroit Mich
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Wagner Mfg Co E R 4611 N 32nd St Milwaukee 16 Wis
Waterbury Companies Inc 835 S Main St Waterbury 20 Conn
Waterbury Pressed Metal Co 300 Chase Ave Waterbury Conn
Wayne Foundry & Stamping Co 3100 Hubbard Ave Detroit 10 Mich "Waynco"
Welded Products Div of Thomson Electric Welder Co 3020 N Water St Bay City Mich
Wesbar Stamping Corp West Bend Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis
Wheeling Steel Corp Wheeling Steel Bldg Wheeling W Va
Whitehead Stamping Co 1661 W Lafayette Blvd Detroit 16 Mich
Wire Cloth Products Inc 2801 Congress St Expressway Bellwood Ill
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis
Worcester Pressed Steel Co 100 Barber Ave Worcester 6 Mass "Presteel"
Worcester Stamped Metal Co 9 Hunt St Worcester 4 Mass
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis
York Corrugating Co Adams St & W Md RR York Pa (Truck)
Young Radiator Co 709 S Marquette St Racine Wis (Deep drawn large short run; aluminum)
Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich
Youngstown Kitchens - Div of American - Standard 605 S Ellsworth St Salem Ohio
Zenite Metal Corp P O Box 939 Blytheville Ark (Steel zinc and aluminum)
Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

## STAMPINGS, Plastic

Franklin Fibre Lamitex Corp 18th St E of Market St Wilmington Del (Plastic and hard fibre)

## STAMPS, Steel

**(For numbering or lettering parts)**

Acromark Co 9-13 Merrell St Elizabeth 4 N J "Acromark" "Acrostamp"
Adams Co S G 920 Olive St St Louis 1 Mo
Boker & Co 101 Duane St New York 7 N Y
Cunningham Co M E 1025 Chateau St Pittsburgh 33 Pa "Wedge Grip" "Mecco Safety"
Dixon Inc William 32-42 Kinney St Newark 1 N J
Greenfield Steel Stamp Works 2 Mead St Greenfield Mass "Greenfield" "Markrite"
Hanson Co C H 303 W Erie St Chicago Ill
Hoggson & Pettis Mfg Co 141 Brewery St New Haven 7 Conn
Los Angeles Stamp & Stationery Co 1500 S Los Angeles St Los Angeles 15 Calif "Mar-King"
Matthews & Co Jas H 3942 Forbes Ave Pittsburgh 13 Pa "Safe-Hed" "Duo-Life" "Lo-Stress"
Noble & Westbrook Mfg Co 20 Westbrook St East Hartford 8 Conn
Numberall Stamp & Tool Co Huguenot Park S I 12 N Y
Pannier Corp 207 Sandusky St Pittsburgh 12 Pa
Schmidt Inc Geo T 4100 Ravenswood Ave Chicago 13 Ill "Hi-Duty"
Superior Steel & Stamp Co 1401 Vermont Ave Detroit 16 Mich

**STANDS, AUTOMOBILE DISPLAY — See Turntables, Automobile**

**STANDS, CARBURETOR TEST (For Factories)—See Testers, Carburetor (For Factories)**

**STANDS, DIESEL ENGINE TESTING—See Testers, Diesel Engine**

## STANDS, Electric Test

**(For testing starting and lighting equipment; see also Analyzers, Engine and Electrical Equipment)**

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich (Generator and regulator)
Century-Detroit Century Control Engrg Div 6101 Concord Ave Detroit 11 Mich
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Heyer Industries Inc 500 Cortlandt St Belleville 9 N J
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio (Generator and regulator)
Mercury Electric Co 2311 Tauromee St Kansas City Kans (Generator)
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill (Regulator test)
Shurhit Products Inc 845 S Market St Waukegan Ill
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Weidenhoff Corp Algona Iowa

## STANDS, Engine Fuel Flow Test (Automotive)

Fischer & Porter Co 700 Warminster Rd Warminster Pa

## STANDS, Portable (Tool and Parts)

Albertson & Co 3100 Lowell Ave Sioux City 3 Iowa "Sioux"
Angle Steel Inc 55 Oak St Plainwell Mich "ASI"
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill

**BAY PRODUCTS DIV AMERICAN METAL WORKS INC 1835 W Cambria St Philadelphia 32 Pa (Steel)**

Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa "BFC"
Colson Corp Elyria Ohio
Cutler Metal Products Co 1025 Line St Camden NJ
Economy Engrg Co 4511 W Lake St Chicago 24 Ill
Equipto Div Aurora Equipment Co Prairie St at Cleveland Ave Aurora Ill
Frick-Gallagher Mfg Co 200 W Second St Wellston Ohio "FGM"
Gross Mfg Co 1711 California St Monrovia Calif
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio "Herbrand" "Van Chrome"
Herman Co Karl A 412 Fuller Ave N E Grand Rapids Mich "Herco"
Huot Mfg Co 550 N Wheeler Ave St Paul Minn "Porta-Cab"
Kennedy Mfg Co N Harrison St Van Wert Ohio
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich
Lyon Metal Products Inc 609 Monroe Ave Aurora Ill
Nutting Truck & Caster Co 1201 W Division St Faribault Minn
Overbeke-Kain Co 20905 Aurora Ave Bedford Ohio "Roll-A-Bench"
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Sheet Metal Specialty Div of Follansbee Steel Corp State St Follansbee W Va
Shure Mfg Corp 1601 S Hanley Rd St Louis 17 Mo "Nat-Flex" "Scotty" "Shure-Bilt"
Standard Pressed Steel Co P O Box 395 Jenkintown Pa "Hallowell"
Sturdilite Products Inc 2501 Peterson Ave Chicago 45 Ill
Wilson Inc K R Arcade N Y

**STANDS, WELDING—See Positioners, Welding**

**STARTER EQUIPMENT—See Brushes; Cable; Drives, Starter (Auto); Gears, Flywheel Ring; Keys; Motors, Starting, Switches, Starter; Parts, Starting Motor Drive**

## STARTERS, Engine (Remote Control)

Wisconsin Motor Corp 1910 S 53rd St Milwaukee 46 Wis (For refrigerated trucks)

## STARTERS, Motor, For Factories

Allen-Bradley Co 136 Greenfield Ave Milwaukee 4 Wis
Arrow-Hart & Hegeman Electric Co 10 Hawthorne St Hartford 6 Conn (Manual and magnetic)
Clark Controller Co 1146 E 152nd St Cleveland 10 Ohio "3C"
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis "C-H"
Electric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M"
General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
Guyan Machinery Co P O Box 150 Logan W Va
Square D Co Executive Plaza Park Ridge Ill
Weltronic Corp 19500 W 8 Mile Rd Southfield Mich
Westinghouse Electric Corp Buffalo Div 4454 Genesee St Buffalo 5 N Y
Westinghouse Electric Corp Standard Control Div Beaver Pa

STARTING FLUID (Engine) — See Fluid, Starting (Engine)

STARTING MOTOR DRIVE PARTS — See Drives, Starter; also Parts, Starting Motor Drive

STARTING MOTOR RELAYS — See Relays, Starting Motor

STARTING MOTORS—See Motors, Starting

STARTING SYSTEMS FOR ENGINES — See Systems, Starting (For Engines)

STEEL, ALLOY—See Steel, Chrome; Steel, Chrome Nickel; Steel, Nickel; Steel, Manganese; also Steel, Vanadium

## STEEL or IRON, Angle, Channel and Tee

Acme Steel Co 135th St & Perry Ave Chicago 27 Ill "AIM" (Slotted angle steel)
Atlantic Steel Co 16th & Mecaslin Sts Atlanta 1 Ga (Steel)
**BETHLEHEM STEEL CO Bethlehem Pa**
Inland Steel Co 30 W Monroe St Chicago 3 Ill
**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa (Steel)**
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio "Republic" "Republic Enduro" (Stainless)**
**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

## STEEL or IRON, Bar

Alten Foundry & Machine Works Inc 226 W Wheeling St Lancaster 20 Ohio
Atlantic Steel Co 16th & Mecaslin Sts Atlanta 1 Ga (Steel )
**BETHLEHEM STEEL CO Bethlehem Pa**
Boker & Co H 101 Duane St New York 7 N Y (Tool steel)
Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
Great Lakes Steel Corp Ecorse Detroit 29 Mich
Inland Steel Co 38 S Dearborn St Chicago 3 Ill
**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa (Steel)**
Kaiser Steel Corp 1924 Broadway Oakland 12 Calif
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio (Also stainless)**
Tennessee Coal Iron Div U S Steel Corp P O Box 599 Fairfield Ala (Steel)
**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa (Steel)**
Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio (Hot rolled)

## STEEL, Chrome

**BETHLEHEM STEEL CO Bethlehem Pa**
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio**

## STEEL, Chrome Nickel

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
**BETHLEHEM STEEL CO Bethlehem Pa**
McInnes Steel Co 441 E Main St Corry Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio**
**UNITED STATES STEEL CORP 525 Wm Penn Place Pittsburgh 30 Pa "USS Cor-Ten"**

## STEEL, Clad Metal

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind (Sheet)
**SUPERIOR STEEL DIV OF COPPERWELD STEEL CO Carnegie Pa (Strip)**

## STEEL, Cold Finished Bar

American Steel & Wire Div U S Steel Corp Rockefeller Bldg Cleveland Ohio "Amercut"
**BLISS & LAUGHLIN INC 281 E 155th St Harvey Ill "Lusterized" "Strain-Tempered"**
**COPPERWELD STEEL CO Aristoloy Steel Div 4025 Mahoning Ave Warren Ohio**
Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**
Jones & Laughlin Steel Corp Strip Steel Div Youngstown 1 Ohio
**LA SALLE STEEL CO 1410 150th St Hammond Ind "Fatigue-Proof" "Stressproof"**
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill
Superior Drawn Steel Co Monaca Pa
Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala
Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio
**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**
Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

## STEEL, Cold Rolled and Drawn Bar

**BETHLEHEM STEEL CO Bethlehem Pa**
**BLISS & LAUGHLIN INC 281 E 155th St Harvey Ill (Cold drawn bar)**
**COPPERWELD STEEL CO ARISTOLOY STEEL DIV 4025 Mahoning Ave Warren Ohio "Aristoloy" "Ledloy" (Carbon and alloy)**
**EATON MFG CO RELIANCE DIV 25 Charles Ave S E Massillon Ohio**
Fitzsimons Steel Co 1623 Wilson Ave Youngstown 1 Ohio (Cold drawn bar)
Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn (Cold rolled)
**LA SALLE STEEL CO 1410 150th St Hammond Ind "Stressproof"**
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
Precision Steel Warehouse Inc 3500 N Wolf Rd Franklin Park Ill (Shim)
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio

## STEEL, Cold Rolled Strip

Acme Steel Co 135th St & Perry Ave Chicago 27 Ill
Alan Wood Steel Co Conshohocken Pa
**AMERICAN STEEL AND WIRE DIV UNITED STATES STEEL CORP Rockefeller Bldg Cleveland 13 Ohio "USS Amerstrip"**
Armco Steel Corp 703 Curtis St Middletown Ohio
Barnes Steel Div Wallace Associated Spring Corp Bristol Conn
**BETHLEHEM STEEL CO Bethlehem Pa**
Blair Strip Steel Co 1209 Butler Ave New Castle Pa
Cold Metal Products Co 1200 City Bank Bldg Youngstown 1 Ohio
Detroit Steel Corp P O Box 4308 Detroit 9 Mich
**GREAT LAKES STEEL CORP Tecumseh Rd Ecorse Detroit 29 Mich (Carbon)**
Inland Steel Co 30 W Monroe St Chicago 3 Ill
**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**
Jones & Laughlin Steel Corp Stainless & Steel Div Box 4606 Detroit 34 Mich
Kaiser Steel Corp 1924 Broadway Oakland 12 Calif
**McLOUTH STEEL CORP 300 S Livernois St Detroit 17 Mich**
Philadelphia Steel & Wire Corp Penn St & Belfield Ave Philadelphia 44 Pa
Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio (Also stainless)**
Sharon Steel Corp Sharon Pa "Sharonsteel"
Stanley Works (Pressed Metal Div) 195 Lake St New Britain Conn
Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala
Thomas Strip Div Pittsburgh Steel Co Delaware Ave Warren Ohio (Electrolytically coated also uncoated)
**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**
**UNIVERSAL-CYCLOPS STEEL CORP Station St Bridgeville Pa "Unilloy" (Stainless)**
Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

## STEEL, Columbium

**GREAT LAKES STEEL CORP Tecumseh Rd Ecorse Detroit Mich "N-A-X" "N-A-Stra" "GLX-W"**
**MOLYBDENUM CORP OF AMERICA 2 Gateway Center Pittsburgh 22 Pa**

## STEEL, For Cold Extrusion

Copperweld Steel Co Aristoloy Steel Div Mahoning Ave Ext Warren Ohio

STEEL EXTRUSIONS—See Extrusions, Steel

## STEEL, Glass Protected

Smith Corp A O 27th & Hopkins Sts Milwaukee 1 Wis

## STEEL, Ground Flat Stock

American Saw & Mfg Co 67 Boylston St Springfield 1 Mass
Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Capewell Mfg Co 60 Governor St Hartford 2 Conn "Lo-Carb" "Microloy"
Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio
Heller Tool Co Heller Dr Newcomerstown Ohio "Nucut"
Jessop Steel Co Green St Washington Pa
Nicholson File Co Providence 1 R I
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
Precision Steel Warehouse Inc 3500 N Wolf Rd Franklin Park Ill
Simonds Saw & Steel Co 470 Main St Fitchburg Mass
Starret Co L S 1-165 Crescent St Athol Mass
Thompson & Son Co Henry G 277 Chapel St New Haven 5 Conn "Milford"
Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio

## STEEL, High-Speed

Allegheny Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
Athenia Steel Div of National-Standard Co Clifton Ave Clifton N J
**BETHLEHEM STEEL CO Bethlehem Pa**
Boker & Co H 101 Duane St New York 7 N Y
Braeburn Alloy Steel Corp Braeburn Pa
Carpenter Steel Co 101 W Bern St Reading Pa
Columbia Tool Steel Co Lincoln Highway & State St Chicago Heights Ill
Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio
Firth-Sterling Inc 3113 Forbes Ave Pittsburgh 30 Pa
Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind
Jessop Steel Co Green St Washington Pa
Latrobe Steel Co 2626 Ligonier St Latrobe Pa
Pittsburgh Tool Steel Wire Co Monaca Pa
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
United States Steel Corp 525 Wm Penn Pl Pittsburgh 30 Pa "USS Man Ten" "USS Tri Ten"
Universal Cyclops Steel Corp Station St Bridgeville Pa "Motung" "Unicut"
Vanadium-Alloys Steel Co Latrobe Pa

## STEEL, High Strength

Alan Wood Steel Co Conshohocken Pa
American Steel and Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio
**BETHLEHEM STEEL CO Bethlehem Pa**
Byers Co A M P O Box 1076 Pittsburgh Pa "Amballoy"

## STEEL, High Strength—continued

**GREAT LAKES STEEL CORP Tecumseh Rd Ecorse Detroit 29 Mich "N-A-X" "N-A-Stra" "GLX-W" (Columbium)**

Latrobe Steel Co 2626 Ligonier St Latrobe Pa

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**

Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa "USS Man-Ten" "USS Tri-Ten" "USS Par Ten" "USS T-1"**

**UNIVERSAL CYCLOPS STEEL CORP Station St Bridgeville Pa "Unimach"**

Vanadium-Alloys Steel Co Latrobe Pa

Wallingford Steel Co 80 Valley St Wallingford Conn (Cold rolled strip)

## STEEL, High Temperature

Latrobe Steel Co 2626 Ligonier St Latrobe Pa

**UNIVERSAL CYCLOPS STEEL CORP Station St Bridgeville Pa "Unitemp"**

## STEEL, Hot Finished Bar

Crucible Steel Co of America Box 88 Pittsburgh 30 Pa

**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**

Timken Roller Bearing Co (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio

## STEEL, Hot Rolled Strip

Acme Steel Co 135th St & Perry Ave Chicago 27 Ill

Alan Wood Steel Co Conshohocken Pa "AW"

American Steel and Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio

Armco Steel Corp 703 Curtis St Middletown Ohio

Atlantic Steel Co 16th & Mecaslin Sts Atlanta 1 Ga

**BETHLEHEM STEEL CO Bethlehem Pa**

**GREAT LAKES STEEL CORP Tecumseh Rd Ecorse Detroit 29 Mich (Carbon)**

Inland Steel Co 30 W Monroe St Chicago 3 Ill

**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**

Kaiser Steel Corp 1924 Broadway Oakland 12 Calif

Laclede Steel Co Arcade Bldg St Louis 1 Mo

**McLOUTH STEEL CORP 300 S Livernois Ave Detroit 17 Mich**

Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio ("Republic" "Republic Enduro" stainless)**

Sharon Steel Corp Sharon Pa

Stanley Works (Pressed Metal Div) 198 Lake St New Britain Conn

Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

Weirton Steel Co Div of National Steel Corp Weirton W Va

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

## STEEL, Leaded

**ARISTOLOY STEEL DIV COPPERWELD STEEL CO 4025 Mahoning Ave Warren Ohio**

## STEEL, Manganese

**BETHLEHEM STEEL CO Bethlehem Pa**

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

## STEEL, Nickel

Apollo Metal Works Inc Clearing Station Chicago 38 Ill (Nickel plated in sheets and coils)

**BETHLEHEM STEEL CO Bethlehem Pa**

Carpenter Steel Co 101 W Bern St Reading Pa

McInnes Steel Co 441 E Main St Corry Pa

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**

**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio**

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

## STEEL, Screw Stock

American Steel and Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio

Bliss & Laughlin 281 E 155th St Harvey Ill (Cold finished)

La Salle Steel Co 1410 150th St Hammond Ind

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**

Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill

Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio

## STEEL, Sheet

Acme-Newport Steel Co Ninth & Lowell Sts Newport Ky

Alan Wood Steel Co Conshohocken Pa "AW" (Hot and cold rolled)

American Nickeloid Co Peru 34 Ill (Nickel chrome copper and brass plated)

**AMERICAN STEEL AND WIRE DIV UNITED STATES STEEL CORP Rockefeller Bldg Cleveland 13 Ohio**

Apollo Metal Works Inc Clearing Station Chicago 38 Ill (Chromium nickel copper or brass plated)

**ARMCO STEEL CORP 703 Curtis St Middletown Ohio "Armco Zinegrip" (Hot and cold zinc-coated and aluminized)**

**BETHLEHEM STEEL CO Bethlehem Pa "Beth Cu Loy"**

Copperweld Steel Co Aristoloy Steel Div 4025 Mahoning Ave Warren Ohio

Crucible Steel Co of America Box 88 Pittsburgh 30 Pa

Detroit Steel Corp Box 4308 Detroit 9 Mich (Hot and cold rolled)

Eastern Stainless Steel Corp P O Box 1975 Baltimore Md (Stainless)

**GREAT LAKES STEEL CORP Tecumseh Rd Ecorse Detroit 29 Mich (Cold and hot rolled)**

Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn (Cold rolled)

Ingersoll Steel Div Borg-Warner Corp P O Box 273 New Castle Ind (Carbon alloy and stainless)

**INLAND STEEL CO 30 W Monroe St Chicago 3 Ill (Hot and cold rolled; "Ti Namel" enameled and galvanized "Ti-Co" "Paint-Tite"**

**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**

Kaiser Steel Corp 1924 Broadway Oakland 12 Calif (Hot and cold rolled)

**McLOUTH STEEL CORP 300 S Livernois Ave Detroit 17 Mich**

Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio "Republic" (Galvannealed; "Republic Enduro" stainless; "Republic Electro Paintlok" "Republic Electro Zincbond")**

Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill

Sharon Steel Corp Sharon Pa

Superior Sheet Steel Co Canton Ohio

Superior Steel Corp 3112 Grant Bldg Pittsburgh 19 Pa (Copper monel or nickel coated)

Tennessee Coal & Iron Div United States Steel Corp P O Box 599 Fairfield Ala

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa (Stainless)**

Washington Steel Corp Griffith & Woodland Aves Washington Pa (Stainless)

Weirton Steel Co Div of National Steel Corp Weirton W Va (Hot and cold rolled zinc coated galvanized "NAX" high tensile)

Wheeling Steel Corp Wheeling Steel Bldg Wheeling W Va

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio (Hot and cold rolled)

## STEEL, Spring

**AMERICAN STEEL & WIRE DIV UNITED STATES STEEL CORP Rockefeller Bldg Cleveland 13 Ohio**

**ATHENIA STEEL DIV OF NATIONAL-STANDARD CO Clifton Ave Clifton N J (Flat high carbon)**

Barnes Co Wallace Div of Associated Spring Corp 18 Main St Bristol Conn

**BETHLEHEM STEEL CO Bethlehem Pa**

Blair Strip Steel Co 1209 Butler Ave New Castle Pa

Burton Auto Spring Corp 2433 W 48th St Chicago 32 Ill

Crucible Steel Co of America Box 88 Pittsburgh 30 Pa

Detroit Steel Corp Box 4308 Detroit 9 Mich (Flat cold rolled)

Great Lakes Steel Corp Tecumseh Rd Ecorse Detroit 29 Mich

Jessop Steel Co Green St Washington Pa (Sheet)

Jones & Laughlin Steel Corp Stainless & strip Div Box 4606 Detroit 34 Mich (Stainless)

Precision Steel Warehouse Inc 3500 N Wolf Rd Franklin Park Ill

**ROEBLING'S SONS JOHN A DIV COLORADO FUEL & IRON CORP 640 S Broad St Trenton 2 N J**

Sharon Steel Corp Sharon Pa

**SUPERIOR STEEL DIV OF COPPERWELD STEEL CO Carnegie Pa (Strip)**

Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala

**UNITED STATES STEEL CORP 525 Wm Penn Place Pittsburgh 30 Pa**

## STEEL, Stainless

**ALLEGHENY LUDLUM STEEL CORP 2020 Oliver Bldg Pittsburgh 22 Pa**

American Steel & Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio

**ARMCO STEEL CORP 703 Curtis St Middletown Conn (Sheet strip plate bar and wire)**

Athenia Steel Div of National-Standard Co Clifton Ave Clifton N J (Cold rolled)

Byers Co A M PO Box 1076 Pittsburgh 22 Pa "Amballoy"

Cannon-Muskegon Corp 2875 Lincoln St Muskegon Mich

Carpenter Steel Co 101 W Bern St Reading Pa

**COPPERWELD STEEL CO ARISTOLOY STEEL DIV 4025 Mahoning Ave Warren Ohio "Aristoloy" (Blooms billets and slabs)**

**CRUCIBLE STEEL CO OF AMERICA Box 88 Pittsburgh 30 Pa (Sheet strip rod and wire)**

Eastern Stainless Steel Corp PO Box 1975 Baltimore 3 Md (Coil and strip)

Firth-Sterling Inc 3113 Forbes Ave Pittsburgh 30 Pa "Sterling" (Bar rod and wire)

Hamden Steel & Aluminum Corp State & Edmund Sts New Haven Conn (Bars sheets and coils)

Hammond & Irving Inc 254 North St Auburn N Y

Ingersoll Steel Div Borg-Warner Corp PO Box 273 New Castle Ind

Jessop Steel Co Green St Washington Pa

**JONES & LAUGHLIN STEEL CORP 3 Gatewny Center Pittsburgh 30 Pa**

Jones & Laughlin Steel Corp Stainless & Strip Div Box 4606 Detroit 34 Mich (Sheet Strip bar and wire)

Latrobe Steel Co 2626 Ligonier St Latrobe Pa

McInnes Steel Co 441 E Main St Corry Pa

**McLOUTH STEEL CORP 300 S Livernois Ave Detroit 17 Mich (Strip and sheet)**

Porter Co H K Riverside-Alloy Metal Div Pavilion Ave Riverside N J "Almet" (Wire rod and strip)

Precision Steel Warehouse Inc 3500 N Wolf Rd Franklin Park Ill (Shim and strip)

**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio "Republic Enduro"**

Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill

Seymour Mfg Co 15 Franklin St Seymour Conn (Strip)

**SHARON STEEL CORP Sharon Pa "Sharonart"**

**SUPERIOR STEEL DIV OF COPPERWELD STEEL CO Carnegie Pa (Strip)**

Tennessee Coal & Iron Div United States Steel Corp P O Box 599 Fairfield Ala

Thomas Strip Div Pittsburgh Steel Co Delaware Ave Warren Ohio

**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio**

Ulbrich Stainless Steels Inc Wallingford Conn (Strip)

**UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa**

**UNIVERSAL CYCLOPS STEEL CORP Station St Bridgeville Pa "Unilloy"**

Wallingford Steel Co 80 Valley St Wallingford Conn (Cold rolled strip)

Washington Steel Corp Griffith & Woodland Aves Washington Pa

## STEEL, Tool

**ALLEGHENY LUDLUM STEEL CORP 2020 Oliver Bldg Pittsburgh 22 Pa (Alloy)**

**BETHLEHEM STEEL CO Bethlehem Pa**
Boker & Co H 101 Duane St New York 7 N Y (Oil hardening)
Braeburn Alloy Steel Corp Braeburn Pa (Carbon and alloy)
Cannon-Muskegon Corp 2875 Lincoln St Muskegon Mich (Nickel and cobalt)
Capewell Mfg Co 60 Governor St Hartford 2 Conn
Carpenter Steel Co 101 W Bern St Reading Pa
Columbia Tool Steel Co Lincoln Highway & State St Chicago Heights Ill (Alloy carbon)
**COPPERWELD STEEL CO ARISTOLOY STEEL DIV 4025 Mahoning Ave Warren Ohio**
Crucible Steel Co of America Box 88 Pittsburgh 30 Pa
Darwin & Milner Inc 2345 St Clair Ave Cleveland 14 Ohio
Do All Co 254 N Laurel Ave Des Plaines Ill
Firth-Sterling Inc 3113 Forbes Ave Pittsburgh 30 Pa
Hammond & Irving Inc 254 North St Auburn N Y
Heppenstall Co 4620 Hatfield St Pittsburgh 1 Pa
Ingersoll Steel Div Borg-Warner Corp PO Box 273 New Castle Ind
Jessop Steel Co Green St Washington Pa
Latrobe Steel Co 2626 Ligonier St Latrobe Pa (Carbon and alloy)
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio (Alloy and carbon)**
Sharon Steel Corp Sharon Pa
**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio "Graph-Mo"**
**UNIVERSAL CYCLOPS STEEL CORP Station St Bridgeville Pa "Lo-Air" "Thermold" "Ultradie" "Wando" "Sparta"**
Vanadium-Alloys Steel Co Latrobe Pa (Carbon carbon-vanadium and chrome-vanadium

## STEEL, Vanadium

**BETHLEHEM STEEL CO Bethlehem Pa**
Carpenter Steel Co 101 W Bern St Reading Pa
McInnes Steel Co 441 E Main St Corry Pa
Porter Co H K Vulcan-Kidd Steel Div Aliquippa Pa
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio**

**STEERING APPARATUS — See Connections, Steering; Gears, Steering; Parts, Steering Gear; Pins, King; Systems, Steering Gear Power also Wheels, Steering**

**STEP HANGERS—See Hangers, Step (Pressed Steel)**

**STEP PLATES—See Plates, Step**

**STIFFENERS, DOOR PANEL FOUNDATION —See Binders, Panel (Steel or Composite)**

## STILLS, Solvent Recovering

Circo Co 51 Terminal Ave Clark N J
Detrex Chemical Industries Inc Box 501 Detroit 32 Mich
United States Hoffman Machinery Corp Industrial Filtration Div 103 Fourth Ave N Y 3 N Y "Hoffman"

## STOCKS, Die

Hanson Co Henry L 25 Union St Worcester 8 Mass "Ace"
Oster Mfg Co 1340 E 289th St Wickliffe Ohio "Bull Dog" "Leader"
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Reed Mfg Co Box 1321 Erie Pa (Pipe)
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"
Toledo Pipe Threading Machine Co P O Box 1678 Toledo 3 Ohio

## STONES, Rubbing

Bay State Abrasive Products Co 12 Union St Westboro Mass
Simonds Abrasive Co Tacony & Fraley Sts Philadelphia 37 Pa "Borolon" "Electrolon"

## STONES, Sharpening

Bay State Abrasive Products Co 12 Union St Westboro Mass
**BEHR-MANNING CO 6118 Howe St Troy N Y "Arkansas" "Bear" "Crystolon" "India" "Washita"**
Carborundum Co Buffalo Ave Niagara Falls N Y
Macklin Co Jackson Mich
Simonds Abrasive Co Tacony & Fraley Sts Philadelphia 37 Pa "Borolon" "Electrolon"
Wissota Mfg Co 1301 S 3rd St Minneapolis Minn

**STOP LAMPS—See Signals, Direction Indicating (Auto)**

**STOP LIGHT SWITCHES—See Switches, Stop Light**

## STRAIGHTENERS, Coil Stock (For Presses)

Cooper Weymouth Inc 600 Honeyspot Rd Stratford Conn
Sesco Inc 8881 Central Ave Detroit 4 Mich
Special Engrg Service Inc 7630 Wyoming Ave Dearborn Mich "Ses-Matic"
U S Tool Co 255 N 18th St Ampere (East Orange) N J

**STRAIGHTENING PRESSES — See Presses, Straightening**

**STRAIN GAGES, METAL—See Instruments, Metal Testing**

**STRAINER SCREENS—See Cloth, Wire**

**STRAINERS, AIR—See Cleaners, Air**

## STRAINERS, Gasoline

**(Metal strainers only; for filter assemblies to use between fuel tank and carburetor—See Filters, Gasoline (Auto))**

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**
Airaterra 620 Paula Ave Glendale 1 Calif "Roylyn"
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich
Buckeye Iron & Brass Works 324 E Third St Dayton 1 Ohio
Cuno Engineering Corp 80 S Vine St Meriden Conn
Darby & Son Inc Edw J 1517 Germantown Ave Philadelphia 22 Pa
Imperial-Eastman Corp 6300 W Howard St Chicago 48 Ill
Lunkenheimer Co Beekman St & Waverly Ave Cincinnati 14 Ohio "Trusty"
Michigan Wire Cloth Co 2100 Howard St Detroit 16 Mich
Newark Wire Cloth Co 351 Verona Ave Newark 4 N J
Purolator Products Inc Wayne Div Wayne Mich

## STRAINERS, Gasoline or Oil (Industrial)

Airaterra 620 Paula Ave Glendale 1 Calif "Roylyn"
Johnson Mfg Co 2825 E Hennepin Ave Minneapolis Minn
Michigan Wire Cloth Co 2100 Howard St Detroit 16 Mich
Purolator Products Inc Wayne Div Wayne Mich

## STRAINERS, Oil

**(For use in oil pumps to remove dirt and water; see also Filters, Oil [For Attaching to Engine])**

Airaterra 620 Paula Ave Glendale 1 Calif "Roylyn"
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich
Michigan Wire Cloth Co 2100 Howard St Detroit 16 Mich
Newark Wire Cloth Co 351 Verona Ave Newark 4 N J
Purolator Products Inc Wayne Div Wayne Mich

## STRAPS, Rebound

**(See also Shock Absorbers, Friction, Hydraulic and Pneumatic)**

Graton & Knight Co 356 Franklin St Worcester 4 Mass
Stevens Co A T 118 E 28th St New York 16 N Y
Uniform Hood Lace Co 633 E St Clair St Indianapolis 2 Ind "Black Diamond"

**STRIP STEEL—See Steel, Cold Rolled Strip; Steel, Hot Rolled Strip**

## STRIPS, Sill

**(For setting door and window glass)**

Union Welt Corp 511 S Sangamon St Chicago 7 Ill "Sealtite"

**STRIPS, SPONGE RUBBER — See Rubber, Sponge**

## STRIPS, Weather (Windshield, Window, Etc.)

American Felt Co 25 Glenville Rd Glenville Conn "Afco" (Felt)
Atlantic India Rubber Works Inc 571 W Polk St Chicago 7 Ill
Automotive Products Div Crotty Corp 39 E Chicago Ave Quincy Mich "YankeeSeel"
Auto Vehicle Parts Co 1032 Saratoga St Newport 6 Ky "Au-ve-Co"
Bridgeport Fabrics Inc 165 Holland Ave Bridgeport 9 Conn "Inner Seal" (Door)
Brockton Stay Co 24 Essex St Haverhill Mass
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio (Window)
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Chardon Rubber Co Sixth & Washington Ave Chardon Ohio
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalic"
Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn (Windshield window door and trunk)
General Tire & Rubber Co Englewood & Holmes Ave Akron Ohio
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa (Trunk and door)
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Goodrich Sponge Products Div B F Howe Ave Shelton Conn "Spongex"
Hope Webbing Co Providence R I
Industrial Rubber Goods Co St Joseph Mich
**INLAND MFG DIV GENERAL MOTORS CORP 2727 Inland Ave Dayton 1 Ohio**
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 16 Ill "Dutch Brand"
Johnson Rubber Co Middlefield Ohio
Lange Machine Works Henry G 156 N May St Chicago 7 Ill
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
**SCHLEGEL MFG CO 1555 Jefferson Rd Rochester 23 N Y**
Standard Products Co 2130 W 110th St Cleveland 2 Ohio
Union Welt Corp 511 S Sangamon St Chicago 7 Ill "Sealtite"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Western Felt Works 4115 W Ogden Ave Chicago 23 Ill

**STUD BOLT EXTRACTORS—See Extractors, Bolt and Screw**

**STUD DRIVERS—See Setters, Stud, Nut, Bolt and Lag Screw**

**STUD WELDING EQUIPMENT—See Welders & Equipment, Stud**

## STUDS

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y
American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio (Cylinder head)
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y
Atlas Bolt & Screw Co 1130 Ivanhoe Rd Cleveland 10 Ohio
Bethlehem Steel Co Bethlehem Pa
Brown Corp 213 Bellevue Ave Syracuse N Y
Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa (Wheel)
**CARR FASTENER CO 31 Ames St Cambridge 42 Mass "Dot Trimount" (For sheet metal plastic or composite)**
Central Screw Co 3501 S Shields Ave Chicago 9 Ill Also "Schweppe" self-tapping and self-locking [Licensees]
Champ-Items Inc 6191 Maple Ave St Louis Mo
**CHANDLER PRODUCTS CORP 1491 Chardon Rd Cleveland 17 Ohio**
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Chicago Screw Co Div of Standard Screw Co 2701 Washington Blvd Bellwood Ill "Stanscrew"
Clark Bros Bolt Co Canal St Milldale 1 Conn
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio (Ball; milled)
Driv-Lok Pin Co Park Ave & Chauncey St Sycamore Ill (Grooved; sole distributors Driv-Lok Sales Corp 777 Park Ave Sycamore Ill)
Ferry Cap & Set Screw Co 2151 Scranton Rd Cleveland 13 Ohio "Shinylands"
Ferry Screw Products Inc E W 5240 Smith Rd Cleveland 30 Ohio
Groov-Pin Corp 1125 Hendricks Causeway Ridgefield N J
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hartford Machine Screw Co PO Box 1440 Hartford Conn "Stanscrew"

## STUDS—continued

Haydon Bolts Inc Adams Ave & Unity St Philadelphia 24 Pa
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio
Mac-It Parts Co Shippen & Liberty Sts Lancaster Pa
National Screw & Mfg Co 2440 E 75th St Cleveland 4 Ohio "Lok-Thred"
Newton Insert Co 6500 Avalon Blvd Los Angeles 3 Calif
Ottemiller Co Wm H Pattison St & M & P R R York Pa
Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill "Pheoll Schweppe" (Licensors)
Prior Products Inc 4828 Racell St Dallas, Tex
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio**
Rhode Island Tool Co 148 W River St Providence 1 R I
Rockford Screw Products Co 2501 Ninth St Rockford Ill
Rosan Inc 2901 W Coast Highway Newport Beach Calif (Screw thread)
St Louis Screw & Bolt Co 6900 N Broadway St Louis 15 Mo
Screw & Bolt Corp of America P O Box 1708 Pittsburgh 30 Pa
**SOUTHERN SCREW CO 125 Barkley Rd Statesville N C (Threaded)**
Standard Pressed Steel Corp P O Box 395 Jenkintown Pa
Sterling Bolt Co 363 W Erie St Chicago 10 Ill
Townsend Co Engineered Fasteners Div PO Box 70 Ellwood City Pa
Transit Parts Co 35700 Vine St Willoughby Co (Wheel and rim for buses trucks and trailers)
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Vol-Shan Mfg Co 8463 Higuera St Culver City Calif
Waterbury Pressed Metal Co 300 Chase Ave Waterbury Conn "P-M"
Western Automatic Machine Screw Co 377 Woodland Ave Elyria Ohio "Stanscrew" "Western"

## STUDS, Welding

American-Monarch Corp 5900 Park Ave Cleveland 5 Ohio
Cleveland Cap Screw Co 4444 Lee Rd Cleveland 28 Ohio
K S M Products Inc Woodland Ave & Yale Rd Merchantville 8 N J
Nelson Stud Welding Div Gregory Industries Inc Toledo Ave & E 28th St Lorain Ohio

## SUPERCHARGERS, Engine

Crofton Marine Engine Co 888 Gull St San Diego 1 Calif "Pepco"
Latham Mfg Co 1400 N Congress Ave West Palm Beach Fla
M-D Blowers Inc 100 Fourth St Racine Wis
McCulloch Motors Corp 6101 W Century Blvd Los Angeles 45 Calif (Sole distributors Paxton Products 827 W Olive St Inglewood Calif)
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind (Roots type)**
Thompson Products Valve Div Thompson-Ramo-Wooldridge Inc 1455 E 185th St Cleveland 10 Ohio

**SUPERFINISHING MACHINES — See Machines, Superfinishing**
**SUPPLEMENTARY AXLES (TRUCK)—See Axles, Supplementary (Truck)**
**SUPPORTS, CAR—See Horses and Trestles**
**SUPPORTS, TRAILER—See Gears, Landing (Trailer)**
**SUPPRESSORS, MOTOR RADIO—See Radio Accessories (Auto)**
**SURFACE ROUGHNESS MEASURING INSTRUMENTS — See Instruments, Surface Roughness Measuring**
**SURFACE PLATES—See Plates, Surface and Base**
**SURGE TANKS — See Tanks, Surge (For Radiators)**
**SUSPENSION UNITS, AXLE (FOR TRAILERS)—See Axle Suspension Units, for Trailers**

## SUSPENSIONS, Air (Truck, Trailer and Bus)

**CLARK EQUIPMENT CO AUTOMOTIVE DIV Buchanan 2 Mich (Trailer)**
F A B Mfg Co 1249 67th St Oakland 8 Calif
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich (Truck)
Hendrickson Mfg Co 8001 N 47th St Lyons Ill
Neway Equipment Co 1183 E Laketon St Muskegon Mich (Truck and bus)
Spencer-Safford Loadcraft Inc Augusta Kan "Loadcraft"
Trucktor Corp P O Box 1137 Mountainside N J
Youngstown Steel Car Corp Hunter St Niles Ohio "Yocar Airide"

**SWAGING MACHINES—See Machines, Swaging**
**SWAY BARS—See Bars, Sway**
**SWITCHBOARDS, CHARGING — See Panels and Switchboard, Battery Charging**
**SWITCH KEYS — See Keys, Switch and Starting**
**SWITCH LOCKS—See Locks, Ignition**

## SWITCHES, Direction Indicating Signal (Auto)

Advanced Mfg Inc 738 W 17th St Costa Mesa Calif "AMI"
All-O-Matic Mfg Co 2099 Jericho Turnpike New Hyde Park N Y
Arrow Safety Device Co Mt Holly N J
Auto Lamp Mfg Co 2909 S Indiana Ave Chicago 9 Ill
Betts Machine Co 1800 Pennsylvania Ave W Warren Pa "Warren"
Carter Parts Co 3401 W Madison St Skokie Ill
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Dietz Co R E 225 Wilkinson St Syracuse 1 N Y
Do-Ray Lamp Co 1458 S Michigan Ave Chicago 5 Ill "Do-Ray Flash All"
Grote Mfg Co State Route 7 Madison Ind
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Indak Mfg Corp 1915 Techny Rd Northbrook Ill
K-D Lamp Co 1910 Elm St Cincinnati 10 Ohio
Miro-Flex Co 1824 E Second St Wichita 7 Kan
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J
Peterson Mfg Co 2716 E 14th St Kansas City 27 Mo (Truck)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Power Brake Parts Mfg Co 3441 S Racine Ave Chicago 8 Ill
Ring-Walk Products Inc 123 N Lowry Ave Springfield Ohio (For school buses)
Saginaw Steering Gear Div General Motors Corp 3900 Holland Rd Saginaw Mich
Signal-Stat Corp Signal-Stat Bldg 523 Kent Ave Brooklyn 11 N Y "Signal Stat"; "Sigflare" (Combination directional signal switch and emergency flashing switch for disability parking; also "Flarestat" emergency flashing switch for disability parking)
Sparton Automotive Div of Sparton Corp Jackson Mich (Self-cancelling)
Speaker Corp J W 3059 N Weil St Milwaukee 12 Wis
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Ft Wayne Ind
Yankee Metal Products Corp 25 Grand St Norwalk Conn "Wheel-O-Matic" "Turnflex" (Self-cancelling)

## SWITCHES, Engine Control (Machinery)

Detroit Controls Div American-Standard Corp 5900 Trumbull Ave Detroit 8 Mich "Vernatherm"

## SWITCHES, Floor or Foot (Auto)

**(For signals, headlight dimming, etc.)**

Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind (Foot dimming)**
Echlin Mfg Co U S Route 1 Branford Conn (Dimming)
Electric Autolite Co Toledo 1 Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko" (Headlight dimming)
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco" (Headlight dimming)
Guaranteed Parts Co Seneca Falls N Y (Headlight dimming)
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich (Headlight dimming)
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y (Headlight dimming)
Illinois Accessories Co 317 E Ontario St Chicago 11 Ill "Illaco" (Headlight dimming foot)
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
Kem Mfg Co 20 Wagaraw Rd Fair Lawn N J (Headlight dimming)
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco" (Headlight dimming)
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill (Headlight dimming)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind (Headlight dimming foot operated)
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y "Blue Streak" (Headlight dimming)
Switches Inc 317 E Ontario St Chicago 11 Ill (Headlight dimming)
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## SWITCHES, Heater

Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass.
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis "C-H"
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco"
Guaranteed Parts Co Seneca Falls N Y
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
Indak Mfg Corp 1915 Techny Rd Northbrook Ill
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp Joseph 75 Freport St Boston 22, Mass.
Preferred Electric & Wire Co Bush Terminal Bldg No. 8 Brooklyn 32 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City N Y
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y

## SWITCHES, Ignition

Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Briggs & Stratton Corp 2711 N 13th St Milwaukee 1 Wis
Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Electric Autolite Co Toledo 1 Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y

General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco"
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Mitchell Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
Montrose Div Bendix Corp South Montrose Pa
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Pilot" (For Ford, Chevrolet and Plymouth cars)
Murphy Mfr Inc Frank W 3131 S Sheridan St Tulsa Okla (Magnetic)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Scintilla Div Bendix Corp Sidney N Y "Bendix"
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Switches Inc 317 E Ontario St Chicago 11 Ill
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill (Automatic)
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## SWITCHES, Ignition (Cut-Off)

**(Cuts off ignition in case of collision, over turn of car or truck, or short circuit)**

Almquist Engrg Co Milford Pa "Spark-O-Matic"
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Durakool Inc 1010 N Main St Elkhart Ind "Tipover"
Reynolds Electric Co 3000 River Rd River Grove Ill
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y "Mak-Saf"
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

## SWITCHES, Industrial Safety

Automatic Switch Co Hanover Rd Florham Park N J "Asco"
Bulldog Electric Products Co 7610 Jos Campau Ave Detroit 32, Mich "VacuBreak"
Colt's Patent Fire Arms Mfg Co 17 Van Dyke Ave Hartford Conn
Cutler-Hammer Inc 362 N 12 St Milwaukee 1 Wis "C-H"
Electric Controller & Mfg Co Div of Square D Co 4500 Lee Rd Cleveland 28 Ohio "E C & M"
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Square D Co Executive Plaza Park Ridge Ill
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill
Westinghouse Electric Corp Standard Control Div Beaver Pa

## SWITCHES, Light

**(For turning on and off lights on car)**

Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Controls Co of America Appliance & Automotive Controls Div 9555 Soreng Ave Schiller Park Ill
Culver-Stearns Mfg Co 181 Greenwood St Worcester 7 Mass
Cutler-Hammer Inc 362 N 12th St Milwaukee 1 Wis "C-H"
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Delta Electric Co 33rd & Nebraska Sts Marion Ind (For dome lights)
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Electric Autolite Co Toledo 1 Ohio "Autolite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill
Fasco Industries Inc 400 Davis St Rochester 2 N Y (Headlamp)
General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco"
Griffin Lamp Co Shelby Miss
Guaranteed Parts Co Seneca Falls N Y
Guide Lamp Div General Motors Corp 25th St & Arrow Ave Anderson Ind
Ideal Corp 435 Liberty Ave Brooklyn 7 N Y
Indak Mfg Corp 1915 Techny Rd Northbrook Ill
**K-D LAMP CO 1910 Elm St Cincinnati 10 Ohio**
Mitchel Specialty Div Industrial Enterprises Inc Edmund & Shelmire Sts Philadelphia 36 Pa
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Regal Motor Products Inc 6325 Grand River Ave Detroit 8 Mich
Rhodes Inc M H 30 Bartholomew Ave Hartford 6 Conn "Mark-Time Kar-Lite" (Automatic timing for headlights)
Standard Motor Products Inc 3718 Northern Blvd Long Island City N Y
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## SWITCHES, Limit (Machine Tool)

Denison Mfg Co R B 386 Broadway Bedford Ohio
General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
General Equipment & Mfg Co 116 S Campbell St Louisville 6 Ky "GO"

## SWITCHES, Low Air Pressure Warning (Truck)

Fasco Industries Inc 400 Davis St Rochester 2 N Y

## SWITCHES, Pressure, Air & Hydraulic (Auto and Truck)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Hway Flint 2 Mich**
General Electric Co General Purpose Control Dept Box 913 Bloomington Ill
Hobbs Div Stewart-Warner Corp John W Yale Blvd & Ash St Springfield Ill

## SWITCHES, Seat and Window (Electric)

Delta Electric Co 33rd & Nebraska Sts Marion Ind

## SWITCHES, Starter

American Motor Products Co Fond du Lac Wis "Ampco"
Automatic Battery Co of America 132 S Center St Goldsboro N C "Orpin" (Battery)
Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill "Test-Aid" (Remote control)
Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**
Echlin Mfg Co U S Route 1 Branford Conn
Electric Auto-Lite Co Toledo 1 Ohio "Auto-Lite"
F & B Mfg Co 4248 W Chicago Ave Chicago 51 Ill "Filko" (Solenoid)
Freedco Products Inc 36-08 33rd St Long Island City 6 N Y
General Automotive Specialty Co 10-40 45th Ave Long Island City 1 N Y "Gasco" (Dash and floor)
Guaranteed Parts Co Seneca Falls N Y "GP"
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich (Remote control)
Holley Carburetor Co 11955 E Nine Mile Rd Warren Mich
Illinois Accessories Co 317 E Ontario St Chicago 11 Ill "Illaco"
Indak Mfg Corp 1915 Techny Rd Northbrook Ill
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Leece-Neville Co 1374 E 51st St Cleveland 3 Ohio "L-N"
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill
Paragon Products Corp 140 Astor St Newark 5 N J "Vulcan" (Sole distributors Vulcan Motor Products Inc 1060 Broad St Newark 2 N J)
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Shurhit Products Inc 845 S Market St Waukegan Ill
Sorensen Mfg Co P 32-21 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y
Switches Inc 317 E Ontario St Chicago 11 Ill
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y (Mechanical and solenoid)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"

## SWITCHES, Starter (Automatic)

Murphy Inc Frank W 3131 S Sheridan St Tulsa Okla
Synchro-Start Products Inc 8151 N Ridgeway Ave Skokie Ill

## SWITCHES, Stop Light

American Motor Products Co Fond du Lac Wis "Ampco"
Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill
Betts Machine Co 1800 Pennsylvania Ave W Warren Pa "Warren"
Carter Parts Co 3401 W Madison St Skokie Ill
Clum Mfg Co 601 W National Ave Milwaukee 4 Wis
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Delta Electric Co 33rd & Nebraska Sts Marion Ind
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
Eis Automotive Corp Box 701 Middletown Conn
Electric Autolite Co Toledo 1 Ohio
Fasco Industries Inc 400 Davis St Rochester 2 N Y
Guaranteed Parts Co Seneca Falls N Y "GP"
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich (Trailer)
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Lisle Corp Brake Div 805 E Main St Clarinda Iowa
Loock & Co R J 343 N Gay St Baltimore Md
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
Master Parts Div Airtex Products Inc Fairfield Ill
Midland-Ross Corp Owosso Div 490 S Chestnut St Owosso Mich (Trailer)
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Pilot"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
R-B-M Controls Div Essex Wire Corp 131 Godfrey St Logansport Ind
Sorensen Mfg Co P 32-31 5th St Woodside 77 N Y
Tasco Products Div of Guaranteed Parts Co Seneca Falls N Y
Transit Parts Co 35700 Vine St Willoughby Ohio (Bus truck and trailer)
Valley Forge Products Inc 370 19th St Brooklyn 15 N Y
Wagner Electric Corp 6400 Plymouth Ave St Louis 33 Mo "Lockheed"
Weatherhead Co Fort Wayne Div 128 W Washington Blvd Fort Wayne Ind
Wells Mfg Corp 2-26 S Brooke St Fond du Lac Wis
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Yankee Metal Parts Corp 25 Grand St Norwalk Conn

## SWITCHES, Temperature

AC The Electronics Div of General Motors Corp 1300 N Dort Hway Flint 2 Mich

**SWITCHING RELAYS—See Relays, Switching**

## SYSTEMS, Air Circulating (Truck-Trailer)

Preco Inc 6300 E Slauson Ave Los Angeles 24 Calif

## SYSTEMS, Data Processing

**BURROUGHS CORP Second & Burroughs Ave Detroit 32 Mich**

General Electric Co Computer Dept 13430 N Black Canyon Hway Phoenix Ariz

**INTERNATIONAL BUSINESS MACHINE CORP Data Processing Dept White Plains N Y**

Radio Corp of America Electronic Data Processing Div Camden 2 N J "RCA"

## SYSTEMS, Dust (Exhaust and Collector)

Aget Mfg Co 1332 E Church St Adrian Mich "Dustkop"
American Standard Industrial Div Detroit 32 Mich
Bartlett & Snow Co C O 6200 Harvard Ave Cleveland 5 Ohio "Bartlett-Snow"
Brady Conveyors Corp 4244 Dempster St Skokie Ill

**CENTRI-SPRAY CORP 39001 Schoolcraft Rd Livonia Mich**

Cincinnati Electrical Tool Co 300 Mt Hope Ave Cincinnati 4 Ohio (Collector)
Circo Co 51 Terminal Ave Clark N J

**DEVILBISS CO 300 Phillips Ave Toledo 1 Ohio**

DeVilbiss Metal Fabricators Co 5741 Russell St Detroit 11 Mich "Hydro-Whirl"
Hammond Machinery Builders Inc 1621 Douglas Ave Kalamazoo 54 Minn
Hisey-Wolf Machine Co Galvin & Mt Hope Aves Cincinnati 4 Ohio
Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa "Joy Microdyne"
Kindt-Collins Co 12651 Elmwood Ave Cleveland 11 Ohio "Master"
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio
Macleod Co Box 452 Sharonville Ohio

**MAHON CO R C 6565 E 8 Mile Rd Detroit 34 Mich**

Maremont Automotive Products Inc S Ashland Ave at 16th St Chicago 8 Ill
Metalwash Machinery Corp 901 North Ave Elizabeth 4 N J
Pangborn Corp 200 Pangborn Blvd Hagerstown Md
Pulverizing Machinery Div American-Marietta Co 85 Chatham Rd Summit N J "Mikro-Pulsaire"
Research-Cottrell Inc P O Box 750 Bound Brook N J "Cyclo-trell" (Mechanical)
Rockwell Mfg Co Delta Power Tool Div 400 N Lexington Ave Pittsburgh 8 Pa "Delta-Rockwell"
Ruemelin Mfg Co 3860 N Palmer St Milwaukee Wis
Schmieg Industries Inc 23930 Sherwood St Detroit 32 Mich
Schneible Co Claude B P O Box 296 Roosevelt Park Annex Detroit 2 Mich
Sly Mfg Co W W 4706 Train Ave Cleveland Ohio "Dynaclone"
Standard Electrical Tool Co Mt Hope & River Rd Cincinnati 4 Ohio
Tabor Mfg Co 6225 Tacony St Philadelphia 35 Pa
Torit Mfg Co 1133 Rankin St St Paul 2 Minn
Wheelabrator Corp 1466 S Byrkit St Mishawaka Ind "Wheelabrator Dustube"
Young & Bertke Co 2212 Buck St Cincinnati 22 Ohio

**SYSTEMS FINISHING—See Systems, Finishing**

## SYSTEMS, Fuel Control (Jet Engine)

**HOLLEY CARBURETOR CO 11955 E Nine Mile Rd Warren Mich**

## SYSTEMS, Ignition (Complete)

**(See also Coils, Ignition; also Distributors, Ignition; also Magnetos, Ignition; also Motors, Starting [Electric])**

**DELCO-REMY DIV GENERAL MOTORS CORP 2401 Columbus Ave Anderson Ind**

Electric Autolite Co Toledo 1 Ohio "Autolite"
Fairbanks Morse & Co Lawton Ave Beloit Wis (Low-tension)
Kellogg Switchboard & Supply Co 6650 S Cicero Ave Chicago Ill
Mallory Electric Corp 12416 Cloverdale Ave Detroit 4 Mich
Shurhit Products Inc 845 S Market St Waukegan Ill

## SYSTEMS, Ignition (Emergency)

Blackstone Mfg Co Stan-Test Div 4630 W Harrison St Chicago 44 Ill "K-W"

## SYSTEMS, Machine Tool Control

Bendix Corp Industrial Controls Section 21820 Wyoming Ave Detroit 37 Mich
Cross Co 17801 E 14 Mile Rd Fraser Mich

**SEIBERT & SONS INC Chenoa Ill**

Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill "Toolitrol"
True-Trace Corp 9830 Rush St El Monte Calif

## SYSTEMS, Overhead Carrying

American Monorail Co 1111 E 200th St Cleveland 17 Ohio
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Borg-Warner Industrial Cranes 1536 S Paulina St Chicago 8 Ill
Chainveyor Corp 5618 E Washington Blvd Los Angeles 22 Calif (Combination overhead power and free)
Chicago Tramrail Corp 1330 S Kostner Ave Chicago 23 Ill "Trak-Rak"
Cleveland Crane & Engineering Co 5866 E 283rd St Wickliffe Ohio "Cleveland Tramrail"
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H"
Lamson Corp 100 Lamson St Syracuse 1 N Y
Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill
Louden Machinery Co 1102 West Ave Fairfield Iowa
Reading Crane & Hoist Corp 2140 Adams St Reading Pa
Richards-Wilcox Mfg Co Third St & C B & Q R R Tracks Aurora Ill
Shepard Niles Crane & Hoist Corp Montour Falls N Y (Electric)
Whiting Corp 157th & Lathrop Sts Harvey Ill

## SYSTEMS, Recording (Oscillographic)

**SANBORN CO INDUSTRIAL DIV 175 Wyman St Waltham 54 Mass**

## SYSTEMS, Starting (For Engines)

**ALECTRIC MFG CO 7842 39th Ave Kenosha Wis**

## SYSTEMS, Steering Gear Power

**VICKERS INC MOBILE HYDRAULICS DIV ADMINISTRATIVE & ENGRG CENTER Detroit 32 Mich**

**T LATHES—See Lathes, T**

**TABLES, CIRCULAR SAW—See Machines, Sawing (Circular)**

## TACHOMETERS, Engine Testing (Auto)

Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich "Allen" "Auto-Equip" (Electric)
Auto-Test Inc 600 S Michigan Ave Chicago 5 Ill
Doyle Electro Products Co 725 Bond Ave NE Grand Rapids 2 Mich
Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Kal-Equip Co 411 Washington St Otsego Mich "Kal-Tach"
King Electric Equipment Co 9115 Inman Ave Cleveland 5 Ohio
Niehoff & Co C E 4925 W Lawrence Ave Chicago 30 Ill

**SUN ELECTRIC CORP 6323 Avondale Ave., Chicago 31 Ill (Electric)**

Weidenhoff Corp Algona Iowa

## TACHOMETERS, Speed

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich (Electric)**

Almquist Engrg Co Milford Pa
Amthor Testing Instrument Co 45 Van Sinderen Ave Brooklyn 7 N Y
Barbour-Stockwell Instruments Div of Curtis & Marble Machine Co 80 Cambridge St Worcester 3 Mass
Beckman Instruments Inc Berkeley Div 2200 Wright Ave Richmond Calif (Digital)
Biddle Co James S 1316 Arch St Philadelphia 7 Pa "Frahm" "Jagabi"
Bristol Co Waterbury 20 Conn
Esterline-Angus Co P O Box 596 Indianapolis 6 Ind
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Ideal Industries Inc 1014 Park Ave Sycamore Ill
Jones-Motrola Corp 432 Fairfield Ave Stamford Conn "Jones"
King-Seeley Div King-Seeley Corp 315 S First St Ann Arbor Mich "K-S"
Martindale Electric Co 1310 Hird Ave Cleveland 7 Ohio (Swiss)
Metron Instrument Co 432 Lincoln St Denver 3 Colo (Electric)
Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Aves Philadelphia 44 Pa
Performance Measurements Co 15120 Third Ave Detroit 3 Mich
Radson Engrg Corp Macon Ill
Stewart-Warner Corp Instrument Div 1826 Diversey Parkway Chicago Ill (Electric and mechanical)
Stricht Co Herman H 27 Park Place New York N Y "Standco"
Sun Electric Corp 6323 Avondale Ave Chicago 31 Ill
Veeder-Root Inc 20 Sargeant St Hartford 2 Conn
Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass

**TACKING MACHINES—See Machines, Tacking**

**TAILGATE LOADERS, Truck—See Loaders, Truck (Elevating Tailgate)**

**TAIL LAMPS—See Lamps, Back-Up, Cowl, Dome, Fender, Tail, Parking, Running Board and Clearance**

**TAIL PIPES—See Pipes, Tail and Exhaust**

## TAKE-OFFS, Power

**(Attachments to permit the use of the car motor for general power purposes)**

Adams Engrg Co 31711 Solon Rd Solon 39 Ohio "Adaloy" & "Adams"
Arrow Gear Div of Motor Products Corp P O Box 547 Broken Arrow Okla
Cemco Industries Inc Galion Ohio (Split shaft)
Chelsea Products Inc 21 Buchanan St Chelsea Mich
Cotta Transmission Co 2340 11th St Rockford Ill

**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer"**

Dura Co Paris Products Div Paris Ky
F A B Mfg Co 1249 67th St Oakland 8 Calif "Fabco"
Funk Mfg Co 1211 W 12th St Coffeyville Kans
Gar Wood Industries Inc Wayne Mich (With hoist winch and crane)
Heil Co 3000 W Montana St Milwaukee 1 Wis
Hendrickson Mfg Co 8001 W 47th St Lyons Ill
Highway Trailer Co 405 E Fulton St Edgerton Wis
Holan Corp 4100 W 150th St Cleveland 35 Ohio
Lempco Products Inc 5490 Dunham Rd Bedford Ohio
Muncie Parts Mfg Co 342 N Pershing Dr Muncie Ind

**ROCKFORD CLUTCH DIV BORG-WARNER CORP 1319 18th Ave Rockford Ill**

Stimmel Winch Co 37-24 33rd St Long Island City 1 N Y
Stow Mfg Co 443 State St Binghamton N Y (Flexible shaft)
Truckstell Mfg 3190 W 140th St Cleveland 11 Ohio
Tulsa Winch Div of Vickers Inc 815 E First St Tulsa 20 Okla
Twin Disc Clutch Co 1328 Racine St Racine Wis

**WATEROUS CO 80 E Fillmore Ave St Paul 7 Minn**

Watson Co H S 1316 67th St Emeryville 8 Calif "Watson-Brown-Lipe"
Western Gear Corp 2600 E Imperial Highway Lynwood Calif

**TANDEM SUSPENSIONS (TRUCK) — See Suspensions, Tandem (Truck)**

**TANK BODIES—See Tanks, Trailer and Truck Body**

**TANK BODY EQUIPMENT — See Valves, Two-Way, Three-Way and Four-Way (Tank); also Vents, Tank Body**

**TANK EQUIPMENT — See Caps, Gasoline Tank**

## TANKS, Air and Vacuum (Brake)

Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich (Vacuum)

**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo (Air)**

**TANKS, AUTOMOBILE (FUEL SUPPLY)—See Tanks, Gasoline and Diesel (Auto)**

## TANKS, Chemical Fire

**(For installation on motor propelled fire apparatus)**

Safety Fire Extinguisher Co 293 Seventh Ave New York 1 N Y

**TANKS, FIRE—See Tanks, Chemical Fire**

## TANKS, Gasoline and Diesel (Auto and Truck)

American Safety Tank Co 3937 Main St Kansas City 11 Mo

Anderson Co O L 12400 Burt Rd Detroit 28 Mich
Chilton Metal Products Inc 300 Breed St Chilton Wis
Cutler Metal Products Co 1025 Line St Camden N J
Fontaine Truck Equipment Co 1232 N 37th Pl Birmingham Ala (Auxiliary gasoline for trucks)
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
M D Parts Mfg Co 5247 Coffman-Pico Rd Pico Calif (For jeeps)
Master Tank & Welding 1612 Singleton Blvd Dallas 2 Tex (Side-mounted)
Michigan Fleet Equipment Co 2350 Chicago Drive S W Grand Rapids Mich (Truck)
Mitchell Metal Products Inc 6501 Cedar Ave Cleveland 3 Ohio
Pressed Steel Tank Co 1445 S 66th St Milwaukee 14 Wis "Hackney" (LP-G for trucks)
Prior Products Inc 4828 Racell St Dallas Tex (Also combination tank tool chest and jack well for trucks; also step round cylindrical etc tanks)
**SNYDER TANK CORP 3773 Lake Shore Blvd (P O Box 14) Buffalo 5 N Y (Aluminum steel and terne plate truck)**
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis
Western Metal Specialty Div Western Industries Inc 1213 N 62nd St Milwaukee 13 Wis

## TANKS, LP-Gas Fuel (Truck and Trailer)

Western Tank & Steel Corp 1302 Erskine St Lubbock Tex

## TANKS, Metal Pickling

Bethlehem Steel Co Bethlehem Pa
Mahon Co R C 6565 E 8 Mile Rd Detroit 34 Mich
Rolock Inc 1350 Kings Highway Fairfield Conn

## TANKS, Quenching

Bethlehem Steel Co Bethlehem Pa
Biggs Steel Fdry & Fabricating Co 1007 Bank St Akron 5 Ohio
Electric Furnace Co 539 Wilson Ave Salem Ohio "EF" "Elfurno"
Sharpsville Steel Fabricators Inc Sharpsville Pa

## TANKS, Surge (For Radiators)

Anderson Co I L 12400 Burt Rd Detroit 28 Mich
Stolper Industries Inc 300 Pilgrim Rd Menomonee Falls Wis

## TANKS, Trailer and Truck Body

Almont Welding Works Inc Almont Mich (Stainless cargo bulk pickup and milk)
American Steel Works 1211 W 27th St Kansas City Mo
Andrews Industries Inc 7901 Alabama Ave St Louis 11 Mo
Auto Truck Steel Body Co 3040 Carroll Ave Chicago 12 Ill
Beall Pipe & Tank Corp 12005 N Burgard St Portland 3 Ore
Boston Steel & Mfg Co 112 Bryant St Malden 48 Mass (Oil and gasoline truck)
Butler Mfg Co 7400 E 13th St Kansas City 26 Mo (Aluminum)
Champion Sheet Metal Co 2 Squires St Cortland N Y (Fuel truck to order)
Columbian Steel Tank Co 1409 W 12th St Kansas City 7 Mo
Cutler Metal Products Co 1025 Line St Camden N J
Downingtown Iron Works Inc Wallace Ave Downingtown Pa
Eaton Metal Products Corp 13th St & Willis Ave Omaha 2 Nebr (Truck)
Farrell Mfg Co 804 E Cass St Joliet Ill
Fruehauf Trailer Co 10940 Harper Ave Detroit 32 Mich
Gary Steel Products Corp P O Box 449 Lynchburg Va (To order)
Heil Co 3000 W Montana St Milwaukee 1 Wis "Heil Frigid-Lite" (Plastic; "Heillter" "Heil" steel)
Hews Body Co 87 St John St Portland 4 Me
Highway Trailer Co 405 E Fulton St Edgerton Wis (Trailer)
Industrial Steel Tank & Body Works Inc 2533 Fourth St Berkeley 10 Calif
Kaustine Furnace & Tank Corp Perry N Y
Kennedy Tank & Mfg Co 833 E Sumner Ave Indianapolis 27 Ind (Truck)
Lang Co 267 W 1st South St Salt Lake City 10 Utah (Truck)
Master Tank & Welding 1612 Singleton Blvd Dallas 2 Tex "Time Saver" (Truck)
Morrison Bros Co 2401 Elm St Dubuque Iowa (Truck)
Niles Steel Tank Co Niles Mich "Lifetime"
Pennsylvania Furnace & Iron Co 316 Pine St Warren Pa
Portersville Stainless Equipment Corp Portersville Pa
Pressed Steel Tank Co 1445 S 66th St Milwaukee 14 Wis "Hackney" (LP-G)
Progress Mfg Co Oil Equipment Div 400 E Progress St Arthur Ill (Steel aluminum and stainless steel)
Providence Body Co 750 Wellington Ave Cranston R I (Truck)
Quaker City Iron Works Aramingo & Ontario Sts Philadelphia 34 Pa
Rock Hill Body Co W Main St Rock Hill S C (Truck)
Sharpsville Steel Fabricators Inc Sharpsville Pa (Truck)
Stainless & Steel Products Co 1000 Berry Ave St Paul 14 Minn "Certified" (Stainless steel)
Standard Steel Works Inc 16th & Howell Sts North Kansas City 16 Mo
Superior Metal Products Inc Branson & 18th Sts Marion Ind (Truck to order)
Truck Welding & Equipment Co 739 Ninth Ave N Seattle 9 Wash (Truck)
Wentworth & Irwin Inc 123 N E Oregon St Portland 14 Ore (Truck)
Wichita Body & Equipment Co 1926 N Broadway Wichita 12 Kans (Live fish transport)
Wilco Inc 400 E Decatur St Kenton Ohio

**TANKS, TRUCK BODY—See Tanks, Trailer and Truck Body**

**TANTALUM CARBIDE—See Alloys, Cutting**

**TAP SHARPENERS—See Machines, Grinding (Tap)**

## TAPE, Insulating

American Tape Co 4058 Beaufait Ave Detroit 7 Mich
Anchor Packing Co 401 N Broad St Philadelphia 8 Pa "Ankorite"
Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I
Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa (Cork and rubber vibration damping)
**BEHR-MANNING CO 6118 Howe St Troy N Y "Bear"**
Bell Co 411 N Wolcott Ave Chicago 22 Ill "Flare"
Better Monkey Grip Co 5320 Harry Hines Blvd Dallas 22 Tex "Monkey Grip" (Sole distributors Monkey Grip Sales Co 5320 Harry Hines Blvd Dallas 22 Tex)
Boston Woven Hose & Rubber Co Cambridge Mass (P O Box 1071 Boston 3 Mass) "Bull Dog"
Chase & Sons Inc 26 Spruce St North Quincy Mass
Connecticut Hard Rubber Co 407 East St New Haven 9 Conn "Temp-R-Tape"
Continental-Diamond Fibre Corp Newark 2 Del
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalic"
Crown Products Co 5722 S 77th St Ralston Neb
Dayton Industrial Products Co Div of Dayco Corp 2201 Janice Ave Melrose Park Ill "Holfast"
**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich "Dee Gee"**
Dow Corning Corp Midland Mich "Silastic"
Dryden Rubber Div Sheller Mfg Corp 1014 S Kildare Ave Chicago 24 Ill
Dunton Co M W 350 Kinsley Ave Providence R I "Black Diamond" "Dunton"
du Pont de Nemours & Co E I Fabrics & Finishes Dept Fabrics Div Wilmington 98 Del "Armalon" (TFE-fluorocarbon for electrical insulation; "Fairprene" for seam sealant for oil air etc)
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Mich
Egan Mfg Co H B P O Box 1406 Muskogee Okla "Camel"
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio
Haartz-Mason Inc Mechanical Products Div 270 Pleasant St Watertown 72 Mass "Stronghold" "Paramount" & "Paraplastic"
Hanson-Van Winkle-Munning Co Matawan N J "Wrap-Rax"
Hope Webbing Co P O Box 1495 Providence 1 R I
Ideal Industries Inc 1014 Park Ave Sycamore Ill
Irvington Varnish & Insulator Div of Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N J "Temflex"
Johns-Manville 22 E 40th St New York N Y "J-M" "Hi-Value" "4-Star" "Jomanco"
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill "Dutch Brand"
**KENDALL CO POLYKEN SALES DIV 309 W Jackson Blvd Chicago 6 Ill "Polyken"**
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "Scotch"
Moxness Products Inc 1914 Indiana St Racine Wis "Mox-Tape" (For electric motors)
**MYSTIK ADHESIVE PRODUCTS INC 2635 N Kildare Ave Chicago 39 Ill**
Permacel U S Highway 1 New Brunswick N J
Plymouth Rubber Co 51 Revere St Canton Mass "Plymouth" & "Slipknot"
Rawhide Products Co Michigan Ave Kenilworth N J "Gripper"
Seamless Rubber Co Industrial Tape Div 253 Hallock Ave New Haven 3 Conn
Shuford Mills Inc 15th St & Highland Ave N E Hickory N C "Shurtape"
Southern Weaving Co 4 Evans St Greenville S C
Superior Insulating Tape Co 3100 Lambdin Ave St Louis 15 Mo "Imp" "S I" "Kleen Kut"
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken"

## TAPE, Masking

American Tape Co 4058 Beaufait Ave Detroit 7 Mich "Pres-Stix"
**BEHR-MANNING CORP 6118 Howe St Troy N Y "Bear"**
Carborundum Co Buffalo Ave Niagara Falls N Y "Flexbac"
Continental Tapes P O Box 256 Cayce S C "Anchor Brand"
Hampton Mfg Co Industrial Tape Div 111 Cedar St New Rochelle N Y "Blue Cross"
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill "Dutch Brand"
**KENDALL CO POLYKEN SALES DIV 309 W Jackson Blvd Chicago 6 Ill "Polyken"**
Minnesota Mining & Mfg Co 900 Fauquier St St Paul 6 Minn "Scotch"
**MYSTIK ADHESIVE PRODUCTS INC 2635 N Kildare Ave Chicago 39 Ill "Mystik" "Protecto-Mask"**
Permacel U S Highway 1 New Brunswick N J
Seamless Rubber Co Industrial Tape Div 253 Hallock Ave New Haven 3 Conn
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio "Plask"
Shuford Mills Inc 15th St & Highland Ave N E Hickory N C "Shurtape"

## TAPPERS, Portable Electric

Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md "Tapgun"
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "Universal"**
Thor Power Tool Co 175 State St Aurora Ill
United States Electrical Tool Co 3620 Llewelyn St Cincinnati 23 Ohio

## TAPPERS, Portable Pneumatic

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St N Y 17 N Y "CP"**
Gardner-Denver Co S Front St Quincy Ill

**TAPPET SCREWS—See Screws, Valve Tappet Adjusting**

## TAPPETS, Valve

Allied Precision Products Inc 600 San Christopher Drive Dunedin Fla "Skinner" (Hydraulic and mechanical)
Brown Corp 213 Bellevue Ave Syracuse N Y
**CHICAGO SCREW CO DIV OF STANDARD SCREW CO 2701 Washington Blvd Bellwood Ill (Hydraulic and mechanical)**
Diesel Equipment Div General Motors Corp 2100 Burlingame Ave S W Grand Rapids 2 Mich "No-Lash" (Hydraulic; sole distributors AC Spark Plug The Electronics Div of General Motors 1300 N Dort Hwy Flint 2 Mich)
**EATON MFG CO SAGINAW DIV 1000 Rust St Saginaw Mich "Zero-Lash" (Also hydraulic and self-adjusting)**
Elgin Machine Works Inc 412 N State St Elgin Ill
Ertel Mfg Co 2045 Martindale Ave Indianapolis 7 Ind
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
**JOHNSON PRODUCTS INC 1185 E Keating Ave Muskegon Mich (Also hydraulic)**
McQuay-Norris Mfg Co 2320 Marconi Ave St Louis 10 Mo
Parts Mfg Co 211 W 61st St N Y 23 N Y "Parco" (Hydraulic adjustable and mechanical)

## TAPPETS, Valve—continued

Rich Mfg Corp 96 N Division St Battle Creek Mich
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich (Hydraulic and adjustable)
Toledo Steel Products Div of Thompson-Ramo-Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio (Hydraulic)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Wohlert Corp 700 E Grand River Drive Lansing 5 Mich (Hydraulic and mechanical)

**TAPPING MACHINES—See Machines, Tapping**

## TAPS, Collapsible

Consolidated Machine Tool Co 565 Blossom Rd Rochester 10 N Y "Modern"
Geometric Tool Co Div of United-Greenfield Corp Blake & Valley Sts New Haven 15 Conn
Jones & Lamson Machine Co 523 Clinton St Springfield Vt "J & L"
Landis Machine Co Fifth & Church Sts Waynesboro Pa
Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio
National Acme Co 170 E 131st St Cleveland 8 Ohio "Namco"
Rickert-Shafer Co 613 W 11th St Erie Pa "R-S"

## TAPS, Hand and Machine

**(See also Taps, Collapsible)**

Bath & Co John 10 Mann St Worcester 2 Mass
Bay State Tap & Die Co Chauncy St Mansfield Mass
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill
Brubaker & Bros Co W L Millersburg Pa
Card Div Union Twist Drill Co S W Rumford Ave Mansfield Mass
Geometric Tool Co Div of United-Greenfield Corp Blake & Valley Sts New Haven 15 Conn (Solid adjustable)
**GREENFIELD TAP & DIE DIV UNITED-GREENFIELD CORP Sanderson St Greenfield Mass "GTD"**
Hanson Co Henry L 25 Union St Worcester 8 Mass "Ace"
Hanson-Whitney Co 169 Bartholomew Ave Hartford 2 Conn "HW"
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass "Co-form"
Jarvis Corp Middletown Conn
Keystone Reamer & Tool Co Millersburg Pa
Landis Machine Co Fifth & Church Sts Waynesboro Pa (Solid adjustable)
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass
Murchey Div Sheffield Corp 721 Springfield St Dayton Ohio (Solid adjustable)
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Reiff & Nestor Co Lykens Pa
Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point" (Hand)
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand"
Threadwell Tap & Die Co Greenfield Mass
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass
Union Twist Drill Co Butterfield Div Darby Line Vt "Butterfield" "Rol-Rite"
Vermont Tap & Die Corp Main & Grove Sts Lyndonville Vt
Whitaker Mfg Co 409 S Green St Chicago Ill
Wood & Spencer Co 1930 E 61st St Cleveland 3 Ohio

## TAXIMETERS

Rockwell Mfg Co Register Div 400 N Lexington Ave Pittsburgh 8 Pa "Rockwell-Ohmer"
United States Taximeter Co 514 W 54th St New York 19 N Y U S "Weisinger"

## TERMINALS, Storage Battery

Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill
Gould-National Batteries Inc Industrial Div 467 Calhoun St Trenton 7 N J
Grand Haven Brass Foundry 230 N Hopkins St Grand Haven Mich
Guaranteed Parts Co Seneca Falls N Y (Solderless)
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
National Aluminum & Brass Foundry Inc 1131 W Elm St Independence Mo (Brass)
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
**PACKARD ELECTRIC DIV GENERAL MOTORS Dana St Warren Ohio**
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Realflex Products Co 335 38th St Brooklyn 32 N Y "Realflex" "Speedway" "Yankee"
Sorensen Mfg Co P 32-31 57th St Woodside 77 N Y
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple-A" "Silver Beauty"
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Willard Sales Automotive Div Electric Storage Battery Co P O Box 6266 Cleveland 1 Ohio "ESB"
Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

## TERMINALS, Wire

AC Spark Plug The Electronic Div of General Motors 1300 N Dort Highway Flint 2 Mich
**AMP INC Eisenhower Blvd Harrisburg Pa "AMP-Faston" (Solderless); "Ampower"**
American Electric Cable Co 181 Appleton St Holyoke Mass
Ark-Les Switch Corp 51 Water St Watertown 72 Mass
Barcy-Nicholson Co 8100 Joy Rd Detroit 4 Mich
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill
Burndy Corp Omaton Div Norwalk Conn "Hylugs"
Cole-Hersee Co 20 Old Colony Ave Boston 27 Mass
Douglas Mfg Div Kingston Products Co Railroad St Bronson Mich
E T C Inc 990 E 67th St Cleveland 3 Ohio (Solderless)
Electric Autolite Co Toledo 1 Ohio "Autolite"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Kem Mfg Co 20-21 Wagaraw Rd Fair Lawn N J
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Machined Parts Corp 6209 Hamilton Ave Detroit 2 Mich "Mapco"
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y "Nimco"
**PACKARD ELECTRIC DIV GENERAL MOTORS Dana St Warren Ohio**
Patton-MacGuyer Co Baker St & Virginia Ave Providence 5 R I
Pollak Corp Joseph 75 Freeport St Boston 22 Mass
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Rajah Co 35 Verona Ave Newark 4 N J
Realflex Products Co 335 38th St Brooklyn 32 N Y "Realflex" "Speedway" "Yankee"
Shakeproof Div of Illinois Tool Works St Charles Rd Elgin Ill (Plain and locking)
Sherman Mfg Co H B 22 Barney St Battle Creek Mich
Standard Motor Products Inc 37-18 Northern Blvd Long Island City L I N Y
Stimpson Co Edwin B 70 Franklin Ave Brooklyn N Y
Thompson-Bremer & Co 228 N La Salle St Chicago 1 Ill "Everlock"
Triple-A-Specialty Co 2835 N Western Ave Chicago 18 Ill "Triple-A" "Silver Beauty"
Vaco Products Co 317 E Ontario St Chicago 11 Ill "Lynn" (Solderless)
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y
Wade Electric Products Co 211 N Jacobs St Sturgis Mich
Walker Bros River & End Sts Conshohocken Pa "Walker of Conshohocken" "Clipper"
Whitaker Cable Corp 1301 Burlington Ave North Kansas City 16 Mo
Zierick Mfg Corp Beechwood & Rockdale Aves New Rochelle N Y

## TESTERS, Carburetor (For Factories)

Cox Instruments Div George L Nankervis Co 15300 Fullerton St Detroit 27 Mich

## TESTERS, Cylinder Head Volume

Snyder Corp 3400 E Lafayette Ave Detroit 7 Mich

## TESTERS, Diesel Engine

Bacharach Industrial Instrument Co 200 N Braddock Ave Pittsburgh 8 Pa
Diesel Control Corp 228 N Marine Ave Wilmington Calif "Unitest"
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich

**TESTERS, ELECTRICAL—See Instruments, Electrical Circuit Testing; also Stands, Electric Test**

**TESTERS, ENGINE—See Analyzers, Engine and Electrical Equipment; also Dynamometers, Engine Testing**

## TESTERS, Fuel Gage

Hanson Co Harvey E Lake Blvd & Commercial St Paw Paw Mich
Telectro Industries Corp 35-16 37th St Long Island City 1 N Y

**TESTERS, GEAR — See Instruments, Gear Testing; also Machines, Testing (Gear)**

**TESTERS, METAL—See Instruments, Metal Testing; also Machines, Testing (Metal)**

**TESTERS, SPRING—See Machines, Testing (Spring); also Tools, Spring Testing**

## TESTERS, Torque

Jo-Line Tools Inc 8442 Otis St South Gate 30 Calif "Jotest" (Wrench)
**PERFORMANCE MEASUREMENTS CO 15120 Third Ave Detroit 3 Mich (Digital)**
Steel City Testing Machines Inc 8817 Lyndon Ave Detroit 38 Mich
Sturtevant Co P A Addison Ill (Wrench)
Sweeney Mfg Co B K 6300 E 44th St Denver 16 Colo

## TESTERS, Valve (Portable)

**(For testing seating of valve before assembly into engine)**

Whittington Pump & Engrg Corp 1126 Prospect St Indianapolis 3 Ind "Whittco"

**TESTING PLUGS, ADJUSTABLE—See Plugs, Testing (Adjustable)**

## THERMOCOUPLES

Bristol Co Waterbury 20 Conn
Illinois Testing Laboratories 420 N La Salle St Chicago 10 Ill "Alnor"
Lewis Engrg Co 339 Church St Naugatuck Conn
Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Ave Philadelphia 44 Pa
**PERFORMANCE MEASUREMENTS CO 15120 Third Ave Detroit 3 Mich**

**THERMOMETERS, RADIATOR—See Gages, Water Temperature Indicating**

## THERMOMETERS, Recording and Indicating

**(See also Pyrometers)**

Bacharach Industrial Instrument Co 200 N Braddock Ave Pittsburgh 8 Pa
Barber-Colman Co 1300 Rock St Rockford Ill "Wheelco"
Bristol Co Waterbury 20 Conn
Daystrom Inc Weston Instruments Div 614 Frelinghuysen Ave Newark 12 N J
Dillon Co W C 14620 Keswick St Van Nuys Calif
Electric Autolite Co Toledo 1 Ohio
Fischer & Porter Co 700 Warminster Rd Warminister Pa
Foxboro Co Neponset Ave Foxboro Mass
Freas Glass Works Francis L 140 E Ninth Ave Conshohocken Pa (Battery indicating)
Illinois Testing Laboratories 420 N LaSalle St Chicago Ill "Alnor" (Indicating)
Kocour Co 4800 S St Louis Ave Chicago 32 Ill (Indicating)
Lewis Enigneering Co 339 Church St Naugatuck Conn
Manning Maxwell & Moore Inc Gage Instrument & Valve Div Stratford Conn "American"
Minneapolis-Honeywell Regulator Co Brown Instrument Div Wayne & Windrim Aves Philadelphia 44 Pa
Powers Regulator Co 3400 Oaktown St Skokie Ill
Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa "Princo" (Indicating)
Rochester Mfg Co 100 Rockwood St Rochester 10 N Y
Taylor Instrument Companies 95 Ames St Rochester 1 N Y
United States Gauge Div of American Machine & Metals Inc Clymer Ave Sellersville Pa

**THERMOSTATIC METALS — See Bi-Metal, Thermostatic**

## THERMOSTATS, Heater

Barber-Colman Co 1300 Rock St Rockford Ill
Dole Valve Co 6201 Oakton St Morton Grove Ill

Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1 Tenn "Sylphon Autostat"
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
Spencer Div Metals & Controls Corp 34 Forest St Attleboro Mass "Klixon" (To order)
United Electric Controls Co 85 School St Watertown 72 Mass
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill

## THERMOSTATS, Water Circulating (Engine)

**(See also Shutters, Radiator)**

Dole Valve Co 6201 Oakton St Morton Grove Ill
**FLEXONICS CORP AUTOMOTIVE DIV 2021 S Latham St Memphis Tenn**
Fulton Sylphon Div Robertshaw-Fulton Controls Co W Cumberland Ave Knoxville 1 Tenn "Sylphon" "Sylphon Autostat"
Harrison Radiator Div General Motors Corp Washburn & Walnut Sts Lockport N Y
Hawk Tool & Engrg Co 20 W Washington St Clarkston Mich "Divert-A-Flow" (Sole distributors Nason Co 20 W Washington St Clarkston Mich)
Standard-Thomson Corp Clifford Mfg Co Div 152 Grove St Waltham 54 Mass
United Electric Control Co 85 School St Watertown 72 Mass

**THIRD AXLE UNITS—See Axle Units, Third, for Trucks**
**THREAD CUTTING MACHINES — See Machines, Thread Cutting**
**THREAD GRINDING MACHINES—See Machines, Thread Grinding**
**THREAD INSERTS — See Inserts, Screw Thread**
**THREAD MILLING MACHINES — See Machines, Milling (Thread)**
**THREAD ROLLING DIES—See Dies, Thread Rolling**
**THREAD ROLLING HEADS — See Heads, Thread Rolling**
**THREADING UNITS, TRANSFER MACHINE —See Units, Threading (Transfer Machine)**
**TIE RODS—See Connections, Steering**

## TIGHTENERS, Chain (Industrial)

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill

**TIMING BELTS—See Belts, Timing**
**TIMING CHAINS—See Chains, Timing (Auto)**
**TIMING INSTRUMENTS—See Instruments, Timing**
**TIMING SPROCKETS, AUTO—See Sprockets, Machined**
**TINNING COMPOUNDS — See Compounds, Tinning**
**TIN PLATING MACHINES FOR PISTONS—See Machines, Plating**
**TIP-OVER SWITCHES—See Switches, Ignition (Cut-off)**
**TIRE CORD—See Cord, Tire**
**TIRE GAGES—See Gages, Chuck**
**TIRE INFLATORS — See Compressors, Air; Gages, Chuck (Tire Inflating)**
**TIRE and TUBE CURING PRESSES — See Presses, Tire and Tube Curing**
**TIRE VALVES, CAPS AND CORES — See Caps, Tire Valve; also Cores, Valve (Tire); also Valves, Tire**

## TIRES, Industrial Truck

Firestone Industrial Products Co Noblesville Ind (Semi pneumatic)

## TIRES, Pneumatic

Armstrong Rubber Co 475 Elm St West Haven 16 Conn
Armstrong-Norwalk Rubber Corp 20 Glover Ave Norwalk Conn "Armstrong" & "Norwalk"
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Corduroy Rubber Co Fuller Ave & G T Tracks Grand Rapids 1 Mich
Dayton Tire & Rubber Co Div of Dayco Corp 2342 Riverview Ave Dayton Ohio "Dayton Thorobred"
Denman Tire & Rubber Co P O Box 951 Warren Ohio
Dunlop Tire & Rubber Corp Sheridan Dr & River Rd Buffalo 5 N Y
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Fisk Tire Div of U S Rubber Co 1230 Ave of the Americas New York 20 N Y
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
General Tire & Rubber Co Englewood & Holmes Ave Akron Ohio
Goodrich Tire Co B F 500 S Main St Akron 18 Ohio "Brunswick" "B F Goodrich" "Hood" "Miller"
**GOODYEAR TIRE & RUBBER CO 1144 E Market St Akron 16 Ohio**
Inland Rubber Corp 515 Newman St Mansfield Ohio
Kelly-Springfield Tire Co P O Box 300 Cumberland Md
Laher Tire & Rubber Co of Calif 26th & Magnolia Sts Oakland Calif "Mustang"
Lee Rubber & Tire Corp Conshohocken Pa
McCreary Tire & Rubber Co Box 700 Indiana Pa
Mansfield Tire & Rubber Co 515 Newman St Mansfield Ohio
Mohawk Rubber Co 1235 Second St Akron 5 Ohio
Pennsylvania Tire Co P O Box 377 Mansfield Ohio
Pure Oil Co 35 E Wacker Drive Chicago 1 Ill
Schenuit Rubber Co Frank S Railroad & Union Aves Baltimore 11 Md
Seiberling Rubber Co Akron Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "Gillette" "U S Royal"

## TIRES, Solid

Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Goodrich Tire Co B F 500 S Main St Akron Ohio
**GOODYEAR TIRE & RUBBER CO 1144 E Market St Akron 16 Ohio**
United States Rubber Co Rockefeller Center 1230 Sixth Ave New York N Y

**TOGGLE CLAMPS—See Clamps, Toggle**

## TONGS, Lifting (Automatic, For Material Handling)

**HEPPENSTALL CO 4620 Hatfield St Pittsburgh 1 Pa**

**TOOL BENCHES—See Stands, Portable Tool and Parts**
**TOOL CONTROL SYSTEMS — See Systems, Machine Tool Control**
**TOOL HOLDERS—See Holders, Tool**
**TOOL RACKS—See Racks, Stock, Tire and Tool (Metal)**
**TOOL STEEL—See Steel, Tool**
**TOOLS, BENDING (TUBE) — See Benders, Tube**

## TOOLS, Boring

Abrasive Dressing Tool Co 14528 2nd Blvd Detroit 3 Mich "Red Band" "Di-X" (Diamond)
Adams Carbide Corp Kenilworth N J
Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Bullard Co 286 Canfield Ave Bridgeport 9 Conn
Clark Co Robert H 9330 Santa Monica Bldg Beverly Hills Calif
Erickson Tool Co 34350 Solon Rd Solon Ohio
Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich "Continental"
Firth Sterling Inc 3113 Forbes Ave Pittsburgh 30 Pa
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
General Electric Co Metallurgical Products Dept 11777 E Eight Mile Rd Detroit 32 Mich "Carboloy" (Cemented carbide)
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich
Heller Tool Co Heller Dr Newcomerstown Ohio (Carbide bits)
Ingersoll Milling Machine Co Rockford Ill
James Engrg & Machry Co 11368 Allen Rd Taylor Mich "Micro-Tool"
Jarvis Corp Middletown Conn
Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide)
McCrosky Tool Corp S Main St Meadville Pa "McCrosky Jack-Lock"
Madison Industries Inc P O Box 1137 Providence 1 R I
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
National Tool Co 11200 Madison Ave Cleveland 2 Ohio
Oneida Machine Tool Corp 2600 E Walnut St Oneida N Y "Casler"
Pipe Machinery Co 29100 Lakeland Bldg Wickliffe Ohio
Production Tool Co of America 6474 Le Grand Ave Detroit 11 Mich
Tungsten-Carbide Tool Co 26250 W 7 Mile Rd Detroit 40 Mich "TCT"
Vascoloy-Ramet Corp 800 Market St Waukegan Ill "Tantung" (Cast alloy; Vascoloy-Ramet" & "V-R" cemented carbide)
Viking Tool Co 1000 Nichols Rd Shelton Conn
Wendt-Sonis Co 10th & Collier Sts Hannibal Mo "W-S" (Carbide tipped)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich

**TOOLS, BROACHING—See Broaches**
**TOOLS, CONNECTING ROD ALIGNING — See Jigs, Connecting Rod Aligning**

## TOOLS, Crimping

**AMP INC Eisenhower Blvd Harrisburg Pa**
Belden Mfg Co 415 S Kilpatrick St Chicago 80 Ill (Hand)
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe" (Hand)
Production Devices Inc Davis St Whitehall N Y "Airlox" (Pneumatic)
Rajah Co 35 Verona Ave Newark 4 N J (Terminal and cable connecting hand)
Vaco Products Co 317 E Ontario St Chicago 11 Ill "Lynn" (Hand)

## TOOLS, Cutting

Abrasive Dressing Tool Co 14528 2nd Blvd Detroit 3 Mich "Red Band" "Di-X" (Diamond)
Adamas Carbide Corp Kenilworth N J
Allegheny Ludlum Steel Corp Carmet Div Detroit 20 Mich "Carmet"
Arrow Tool & Reamer Co 711 Stephenson Highway Troy Mich (Carbide tipped)
Barber-Colman Co 1300 Rock St Rockford Ill (Carbide)
Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo (Carbide lathe cutters for brake drums)
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill (Carbide tipped)
Bicknell-Thomas Co Box 431 Greenfield Mass (Counterbores and countersinks)
Brown & Sharpe Mfg Co 235 Promenade St Providence 1 R I
Chicago-Latrobe 426 W Ontario St Chicago 10 Ill (Bits also counterbores and countersinks)
Clark Co Robert H 9330 Santa Monica Blvd Beverly Hills Calif (Counterbores)
Cleveland Industrial Tool Co Box 84 Chardon Ohio "Citco" (Solid copper diamond)
Cleveland Twist Drill Co 1242 E 49th St Cleveland 14 Ohio "No-Max" (Also counterbores and countersinks)
Cowles Tool Co 2086 W 110th St Cleveland Ohio
Crafts Co Arthur A 603 Newbury St Kenmore Square Boston 15 Mass (Tungsten carbide; also diamond)
Desmond-Stephen Mfg Co 317 S Walnut St Urbana Ohio
Detroit Boring Bar Co 321 W Ten Mile Rd Hazel Park Mich
Do All Co 254 N Laurel Ave Des Plaines Ill
**EX-CELL-O CORP CONTINENTAL TOOL WORKS DIV 1200 Oakman Blvd Detroit 32 Mich "Continental" (Also counterbores and countersinks)**
Falcon Tool Co P O Box 4605 Detroit 34 Mich
Firth Sterling Inc 311 Forbes Ave Pittsburgh 30 Pa
Ford Mfg Co M A P O Box 628 Davenport Iowa (Carbide)
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich (Also counterbores and countersinks)
General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich "Carboloy" (Cemented carbide)
Giddings & Lewis Machine Tool Co 142 Doty St Fond du Lac Wis
Globe Tools 3384 S Robertson Blvd Los Angeles 34 Calif (Bits)
Goddard & Goddard Co 12280 Burt Rd Detroit 23 Mich (Carbide)
Handicraft Tools Inc 48-41 Van Dam St Long Island City 1 N Y "X-acto"
Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Heller Tool Co Heller Dr Newcomerstown Ohio (Carbide)
Highland Carbide Tool Co P O Box 72 Irwin Pa
Hy-Pro Tool Co 461 Mt Pleasant St New Bedford Mass (Bits)
Illinois Tool Works 2501 N Keeler Ave Chicago 39 Ill "Illinite" (Bits)
Ingersoll Milling Machine Co Rockford Ill
Jarvis Corp Middletown Conn (Carbide)
Kennametal Inc Lloyd Ave Latrobe Pa "Kendex" "Kennamatic" "Kennametal" (Cemented carbide)
Klopp Engrg Inc 35551 Schoolcraft St Livonia Mich "Master Tool" (Carbide tipped bits)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio

## TOOLS, Cutting—continued

Maxwell Industries Inc 493 E Fifth St Ashtabula Ohio
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"
Micro-Limit Products Inc 12970 W Eight Mile Rd Oak Park 37 Mich (Countersinks)
Millers Falls Co 57 Wells St Greenfield Mass (Countersinks)
Morse Twist Drill & Machine Co 163 Pleasant St New Bedford Mass (Also counterbores and countersinks)
National Tool Co 11200 Madison Ave Cleveland 2 Ohio "National-Cleveland"
National Twist Drill & Tool Co Rochester Mich (Carbide tipped)
Nobur Mfg Co 6860 Farmdale Ave North Hollywood Calif (Deburring)
O K Tool Co Milford N H
Reltool Corp 4540 W Burnham St Milwaukee 46 Wis
Robinson Mfg Co 13th & Indiana Ave St Charles Ill "Reasor"
Schrillo Aero Tool Engrg Co 8715 Melrose St Los Angeles 46 Calif (Counterbores and countersinks)
Scully-Jones & Co 1977 S Rockwell St Chicago 8 Ill (Counterbores and countersinks)
Severance Tool Industries Inc 710 Iowa Rd Saginaw Mich (Also counterbores and countersinks)
Shearcut Tool Co 7045 Darby Ave Reseda Calif "Shearcutter"
Spartan Saw Works Inc 152 Fisk Ave Springfield 7 Mass (Bits)
Spiral Step Tool Co 5400 N Damen Ave Chicago 25 Ill
Standard Diamond Tool Corp 71 W 47th St N Y 36 N Y (Diamond)
Standard Tool Co 3950 Chester Ave Cleveland 14 Ohio "Shield Brand" (Also counterbores)
Stanworth Tool Mfg Corp P O Box 31 Lebanon Ind (Also counterbores and countersinks)
Star Cutter Co 34500 Grand River Ave Farmington Mich
Threadwell Tap & Die Co Greenfield Mass (Counterbores)
Tungsten Carbide Tool Co 26250 W 7 Mile Rd Detroit 40 Mich "TCT" (Tungsten carbide Tantalum and Titanium)
Union Twist Drill Co 134 Chestnut Hill Ave Athol Mass (Carbide)
Vanadium-Alloys Steel Co Latrobe Pa
Vascoloy-Ramet Corp 800 Market St Waukegan Ill "V-R" & "Vascoloy-Ramet" (Cemented tantalum-tungsten carbide "Tantung" [Co-Cr alloy])
Viking Tool Co 1000 Nichols Rd Shelton Conn
Waldes Kohinoor Inc 47-16 Austel Place Long Island City 1 N Y "Truarc"
Waukesha Cutting Tools Inc Midland & Pearl Sts Waukesha Wis (Also counterbores)
Weldon Tool Co 3000 Woodhill Rd Cleveland 4 Ohio (High speed or carbide)
Wendt-Sonis Co 10th & Collier Sts Hannibal Mo "W-S" (Carbide tipped)
Wesson Co 12200 Woodward Heights Blvd Ferndale 20 Mich (Also counterbores)
Wetmore Reamer Co 420 N 27th St Milwaukee 8 Wis
Whitman & Barnes Div of United Greenfield Corp 40085 Plymouth Rd Plymouth Mich (Also counterbores and countersinks)
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich
Wood Co Frank N 344 W Main St Waukesha Wis "Trucut" (Brake drum)
Zephyr Mfg Co 201 Hindry Ave Inglewood Calif (Bits)

**TOOLS, HONING—See Hones, Cylinder; also Hones, Small Bore**

## TOOLS, Lathe, Planer, Slotter and Shaper

**(See also Holders, Tool)**

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Bullard Co 286 Canfield Ave Bridgeport 9 Conn (Lathe)
Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich (Cemented carbide)
General Electric Co Metallurgical Products Dept 11777 E 8 Mile Rd Detroit 32 Mich "Carboloy" (Cemented tungsten, tantalum and titanium carbide)
Kennametal Inc Lloyd Ave Latrobe Pa (Cemented carbide lathe and planer)
O K Tool Co Milford N H
**SMITCO INC 10107 Meech Ave Cleveland 5 Ohio**
South Bend Lathe Inc 425 E Madison St South Bend 22 Ind (Lathe)
Viking Tool Co 1000 Nichols Rd Shelton Conn

## TOOLS, Marking (For Metal)

**(For writing or marking on steel)**

Acromark Co 9 Morrell St Elizabeth 4 N J (Electric)
Ideal Industries, Inc 1014 Park Ave Sycamore Ill (Electric)
Lectroetch Co 14925 Elderwood Ave E Cleveland 12 Ohio (Electrolytic)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Electric; also demagnetizers)
New Britain Machine Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain" (Electric)

**TOOLS, METAL FINISHING (PORTABLE ELECTRIC)—See Machines, Flexible Shaft**

## TOOLS, Nut, Screw or Bolt Holding

Owatonna Tool Co 316 N Cedar St Owatonna Minn (Magnetic)

## TOOLS, Piston Ring Compressing

**(To facilitate the entering of piston and ring into cylinder)**

Burd Piston Ring Co Box 567 Eau Claire Wis
Cornwell Quality Tools Co Mogadore Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill "Duro Chrome"
Hastings Mfg Co N Hanover St Hastings Mich
Herbrand Div Bingham-Herbrand Corp Lake & Stone Sts Fremont Ohio
Kastar Inc 200 Lincoln Ave N Y 54 N Y
Kennedy Service Tools Co 976 Evans Ave Akron 5 Ohio
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich
Lisle Corp 809 E Main St Clarinda Iowa
National Machine & Tool Co 4077 Page Ave Jackson Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"
Owatonna Tool Co 316 N Cedar St Owatonna Minn
P & C Tool Co Box 5926 Milwaukie Ore
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Proto Tools Co 2209 Santa Fe Ave Los Angeles Calif
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac"
Snap-On Tools Corp 8046 28th Ave Kenosha Wis "Blue Point"
Wilde Tool Co Hiawatha Kans
Wilkening Mfg Co 2000 S 71st St Philadelphia 42 Pa "Pedrick"
Zim Mfg Co 2850 W Fulton St Chicago 12 Ill

**TOOLS, PLANER—See Tools, Lathe, Planer, Slotter and Shaper**

## TOOLS, Pneumatic

**AIRETOOL MFG CO 302 S Center St Springfield Ohio**
Air-Speed Tool Co 1502 W Slauson Ave Los Angeles 47 Calif (Saw and file)
Aro Equipment Corp Byran Ohio
**BUCKEYE TOOLS CORP P O Box 966 Dayton 1 Ohio (For drilling tapping fastening grinding reaming counterboring and wire brushing)**
**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP" (Also pneudraulic pump for use with shop tools)**
**CLECO AIR TOOLS DIV OF REED ROLLER BIT CO 5125 Clinton Drive Houston 1 Tex (Hammers drills etc.)**
Gardner-Denver Co S Front St Quincy Ill
Ingersoll-Rand Co 11 Broadway New York 4 N Y
K & W Products Inc 8319 Allport Ave Whittier Calif (Peening hammers)
Master Power Corp 6225 Cochran Rd Solon 39 Ohio
Owatonna Tool Co 316 N Cedar St Owatonna Minn (Hydraulic pump for use with shop tools)
Quality Tools Corp Railroad St New Wilmington Pa (Chisels)
Rotor Tool Co 23600 Lakeland Ave Cleveland 32 Ohio
Salsbury Corp 1161 E Florence Ave Los Angeles 1 Calif "Salsbury Airgun"
Skil Corp 5033 Elston Ave Chicago 30 Ill (Hammers)
**THOR POWER TOOL CO 175 State St Aurora Ill**

## TOOLS, Reciprocating (Flexible Shaft)

Engis Equipment Hyprez Div Co 431 S Dearborn St Chicago 5 Ill "Di-Profiler"

**TOOLS, SOLDERING—See Irons, Soldering**

## TOOLS, Spot Facing

Bicknell-Thomas Co Box 431 Greenfield Mass
Clark Co Robert H 9330 Santa Monica Blvd Beverly Hills Calif
Ex-Cell-O Corp Continental Tool Works Div 1200 Oakman Blvd Detroit 32 Mich
Haynes Stellite Co 725 S Lindsay St Kokomo Ind
Mummert-Dixon Co Philadelphia & Gay Sts Hanover Pa
Nobur Mfg Co 6860 Farmdale Ave North Hollywood Calif "Intramatic"
Production Tool Co of America 6474 Le Grand Ave Detroit 11 Mich
Stanworth Tool Mfg Corp P O Box 31 Lebanon Ind
Staples Tool Co 2851 Massachusetts Ave Cincinnati 25 Ohio (Carboloy tipped)
Wendt-Sonis Co 10th & Collier Sts Hannibal Mo "W-S"
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich

## TOOLS, Spring Coiling

Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Sleeper & Hartley Inc 335 Chandler St Worcester 2 Mass
Willey's Carbide Tool Co 1340 W Vernor Highway Detroit 1 Mich

## TOOLS, Spring Testing

Accurate Re-Nu Clutch Div of MarPro Inc 168 N Michigan Ave Chicago 1 Ill (Valve)
Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich (For starter and generator brushes)
Cedar Rapids Engineering Co 902 17th St NE Cedar Rapids Iowa "Kwik-Way"
Doyle Electro Products Co 725 Bond Ave N E Grand Rapids 2 Mich
Rinck-McIlwaine Inc 16 Hudson St New York 13 N Y "Rimac" (For valve and clutch springs)
Sturtevant Co P A Addison Ill (For valve and clutch springs)

## TOOLS Thread Cutting

Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Barber-Colman Co 1300 Rock St Rockford Ill
Pratt & Whitney Co Charter Oak Blvd West Hartford 1 Conn
Rivett Lathe & Grinder Inc 20 Riverview Rd Brighton Boston 35 Mass
Star Cutter Co 34500 Grand River Ave Farmington Mich
Threadwell Tap & Die Co Greenfield Mass
Toledo Pipe Threading Machine Co P O Box 1678 Toledo 3 Ohio

## TOOLS, Transmission

Barrett Equipment Co 2101 Cass Ave St Louis 6 Mo
Bonney Forge & Tool Works 2400 Rockhill Rd N Alliance Ohio
Cornwell Quality Tools Co Mogadore Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Houdaille Industries Inc Manzel Div 315 Babcock St Buffalo 10 N Y "Manzel"
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Rate-Maker"
Miller Mfg Co 17640 Grand River Ave Detroit 27 Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"
Proto Tools Co 2209 Sante Fe Ave Los Angeles 54 Calif
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Stephenson Industries Inc 548 E Fort St Detroit 26 Mich "Step-Draulic"
Waldes Kohinoor Inc 47-16 Austel Place Long Island City 1 N Y "Truarc" (Retaining ring pliers)
Wilson Inc K R Arcade N Y

## TOOLS, Tube Flaring

**(See also Machines, Tube Flaring)**

Acorn Mfg Co 33rd & Reed Sts Erie Pa "Amco"
Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago 46 Ill
Cornwell Quality Tools Co Mogadore Ohio
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
Duro Metal Products Co 2649 N Kildare Ave Chicago 39 Ill
Edelmann & Co E 2332 Logan Blvd Chicago 47 Ill "Erco"
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Flaremaster" & "Everflare"
Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Fairmount Tool & Forging Inc 10611 Quincy Ave Cleveland 6 Ohio
G M Co Mfg Inc 13-08 43rd Ave Long Island City L I N Y

**IMPERIAL - EASTMAN CORP 6300 W Howard St Chicago 48 Ill "Hi-Duty" "Imperial" "Rol-Air"**
J & J Machine Co 15420 St Clair Ave Cleveland 10 Ohio "Jet-Vac" (Sole distributors Beal Bros Inc Box 86 Cleveland Ohio)
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich
National Machine & Tool Co 4077 Page Ave Jackson Mich
New Britain Machine Co Hand Tools Div South St New Britain Conn "Blackhawk" & "New Britain"
O E M Products Co 5296 Northwest Highway Chicago 30 Ill
Owatonna Tool Co 316 N Cedar St Owatonna Minn "OTC"
Parker Fittings & Hose Div Parker-Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio
Penn Brass & Copper Co 3837 W 20th St Erie Pa "Papco"
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Quality Tools Corp Railroad St New Wilmington Pa
Rinck-McIlwaine Inc 16 Hudson St N Y 13 N Y "Rimac"
Stevens Walden Inc 475 Shrewsbury St Worcester Mass
Toledo Pipe Threading Machine Co P O Box 1678 Toledo 3 Ohio
**WEATHERHEAD CO FORT WAYNE DIV 128 W Washington Blvd Fort Wayne Ind**
Williams & Co J H 400 Vulcan St Buffalo 7 N Y
Zoerman-Clark Mfg Co 624 N Mechanic St Jackson Mich

## TOOLS, Turret Lathe

**(Including cutters, counterbores, spotfacers and holders for automatic and other turret lathes)**

Bardons & Oliver Inc 1133 W Ninth St Cleveland 13 Ohio
Gairing Tool Co 21221 Hoover Rd Detroit 32 Mich
Warner & Swasey Co 5701 Carnegie Ave Cleveland 3 Ohio

**TOOLS, VALVE CLEARANCE GAGING—See Gages, Valve Clearance**

**TOOLS, WHEEL TRUING—See Dressers, Grinding Wheel**

## TOOLS, Wire Stripping

Burndy Corp Omaton Div Norwalk Conn "Hytool"
Crescent Co 20 Central Ave Pawtucket R I "Wiry Joe"
Holub Industries Inc 413 DeKalb Ave Sycamore Ill "Hi-Speed" "Easy-Strip"
Hunter Tools 9851 Alburtis Ave Santa Fe Springs Calif
Ideal Industries Inc 1014 Park Ave Sycamore Ill "E-Z" "Stripmaster"
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio
Nemco-Speedex Mfg Co Div of GC-Textron Inc 418 S Wyman St Rockford Ill "Speedex"
Proto Tools Co 2209 Santa Fe Ave Los Angeles 54 Calif

**TOP FIXTURES—See Regulators, Top**

**TOP MATERIALS—See Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery)**

## TORCHES, Welding, Cutting and Brazing

**(For complete oxy-actylene outfits—See Welders and Equipment [Oxy-Acetylene])**

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco"**
American Gas Furnace Co Lafayette Spring & Elizabeth Sts Elizabeth N J (Brazing)
Arcair Co Box 431 Lancaster Ohio (Cutting "Twin Electrode" arc welding)
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
Dockson Co C H 3839 Wabash Ave Detroit 8 Mich
General Dynamics Corp Liquid Carbonic Div 135 S La Salle St Chicago 5 Ill "Gasweld"
Harris Calorific Co 5501 Cass Ave N W Cleveland 2 Ohio "Speed King" "GMC" "Monarch"
Hoke Inc 1 Tenakill Pk Cresskill N J "Hoke-Phoenix" (Brazing)
K-G Equipment Co 1744 Lehigh St Allentown Pa (Oxy-acetylene)
Lenk Mfg Co Franklin Ky (Gasoline)
Linde Co 270 Park Ave New York 17 N Y "Oxweld" "Purox" "Heliarc" (Electric)
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill (Electric arc welding)
Modern Engrg Co 3411 Pine Blvd St Louis 3 Mo "Jiffy" (Brazing "Cutmaster" cutting "Meco Professional" welding and cutting
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "Torchweld" "Sureweld"
National Welding Equipment Co 218 Fremont St San Francisco 5 Calif
North American Mfg Co 4455 E 71st St Cleveland 5 Ohio (Welding)
Pier Equipment Mfg Co Milton & Cross Sts Benton Harbor Mich
Rexarc Inc West Alexandria Ohio "Sight Feed" (Acetylene brazing)
Selas Corp of America Dresher Pa (Brazing)
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn
Tolman Mfg Co 19 W Third St South Boston Boston 27 Mass
Trindl Products Ltd 1807 S Clark St Chicago 16 Ill (Arc welding)
Victor Equipment Co 844 Folsom St San Francisco 7 Calif

**TORQUE CONVERTER COOLERS — See Coolers, Torque Converter**

**TORQUE CONVERTER FLUID COUPLINGS —See Couplings, Fluid, Torque Converter (Truck)**

**TORQUE CONVERTER PARTS—See Parts, Torque Converter**

**TORQUE CONVERTERS, Hydraulic — See Converters, Torque (Hydraulic)**

**TORQUE GAGES—See Gages, Torque**

**TORQUE WRENCHES—See Wrenches, Torque**

**TORQUE WRENCH TESTER—See Testers, Torque (Wrench)**

**TORSION BAR SPRINGS—See Springs, Torsion Bar**

**TOTE BOXES—See Boxes, Tote; also Boxes, Tiering**

**TRACING CLOTH—See Cloth, Tracing**

**TRACKS, OVERHEAD CARRYING—See Systems, Overhead Carrying**

**TRACTOR WHEELS—See Wheels, Tractor (Agricultural)**

**TRACTION SANDERS—See Sanders, Traction (Automobile, Truck and Bus)**

## TRACTORS, Industrial (Diesel)

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Deere & Co 1325 Third Ave Moline Ill
Hensel Green & Co 9 S Clinton St Chicago 6 Ill "Unitow"
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill
Oliver Corp 400 W Madison St Chicago 6 Ill
Wagner Tractor Inc 8027 N E Killingsworth St Portland 20 Ore

## TRACTORS, Industrial (Electric)

Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Electric Pony Express Co 1753 Blake Ave Los Angeles 31 Calif "Pony Express"
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio (Also gas-electric)
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "Jacktractor"
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Moto-Truc Co 1953 E 59th St Cleveland 3 Ohio
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRACTORS, Industrial (Gasoline)

Allis-Chalmers Mfg Co Milwaukee 1 Wis (Also LP-G)
Case Co J I 700 State St Racine Wis
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Clarkat" "Clarkette" "Clarktor"
Deere & Co 1325 Third Ave Moline Ill
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio (Also gas-electric)
Erickson Power Lift Trucks Inc St Anthony Blvd & University Ave N E Minneapolis 18 Minn
Essick Mfg Co 1950 Santa Fe Ave Los Angeles 21 Calif
Ford Motor Co Tractor & Implement Div 2500 E Maple Rd Birmingham Mich
"HH" Mfrs 2224 Cerritos Ave Long Beach 6 Calif
Hensel Green & Co 9 S Clinton St Chicago 6 Ill "Unitow"
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Oliver Corp 400 W Madison St Chicago 6 Ill (Also LP-G)
Towmotor Corp 1226 E 152nd St Cleveland 10 Ohio
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

**TRAFFIC SIGNALS—See Signals, Direction Indicating (Auto)**

**TRAILER PARTS — See Axle Suspension Units, for Trailers; Axles, Trailer; Brakes, Trailer; Connectors, Electrical Circuit (Trailer); Controls, Brake (Trailer); Conveyors, Truck and Trailer (Floor Type); Couplers, Trailer; Frames, Trailer; Gears, Landing (Trailer); Gears, Running (Trailer); Locks, Trailer; Lubricators for Autos, Trucks, Trailers and Buses (Central System); Tanks, Trailer and Tank Body; Ventilators, Trailer; Wheels, Trailer; Windows, Metal Sash (Bus, Cab and Trailer)**

## TRAILERS, Industrial

American Trailer & Mfg Co 12222 S Woodruff Ave Downey Calif
Colson Corp Elyria Ohio
Detroit Trailer Co 481 Beaufait St Detroit 7 Mich
Easton Car & Construction Co Liberty & Holly Sts Easton Pa
Electric Wheel Co 1120 N 28th St Quincy Ill "EWC"
Fairbanks Co 393 Lafayette St N Y 3 N Y (Barrel)
"HH" Manufacturers 2224 Cerritos Ave Long Beach 6 Calif
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
La Crosse Trailer Corp 521 Gould St La Crosse Wis
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Miami Specialties Co W Trade Rd Troy Ohio
Nutting Truck & Caster Co 1201 W Division St Fairbault Minn
Ohio Galvanizing & Mfg Co Ann St Niles Ohio
Saginaw Products Corp 68 Williamson St Saginaw Mich
Salem - Brosius Inc Arch St Carnegie Pa "Phillips"
Spartan Aircraft Co 1900 N Sheridan Rd Tulsa Okla
Superior Metal Products Inc Branson & 18th Sts Marion Ind
Thomas Truck & Caster Co 931 Mississippi River Keokuk Iowa (Low-bed)
Whitehead & Kales Co 58 Haltiner St River Rouge 18 Mich "W & K"

## TRAILERS, Transport (Auto, Truck and Tractor)

Elkhart Welding & Boiler Works Inc 2132 S Main St Elkhart Ind "Bock" (Mobile homes)
Fox Body Co 1111 W Racine St Janesville Wis (Auto)
Fruehauf Trailer Co 10904 Harper Ave Detroit 32 Mich
Mechanical Handling Systems Inc 4600 Nancy Ave Detroit 12 Mich
Traffic Transport Engrg Inc 14301 Schaden Ave Dearborn Mich
Troyler Corp 1445 Meylert Ave Scranton Pa
Whitehead & Kales Co 58 Haltiner St River Rouge 18 Mich "W & K"

## TRANSDUCERS

Allegany Instrument Co 1091 Willis Mountain Cumberland Md
**SANBORN CORP INDUSTRIAL DIV 175 Wyman St Waltham 54 Mass "Linearsyn" "Lvsyn"**

**TRANSFER CASES—See Cases, Transfer**

## TRANSFORMERS, Electric

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Chicago Standard Transformer Corp 3501 W Addison St Chicago Ill "Stancor" (Auto and radio)
Djeco Div of Djordjevic Engrg Co 1933 N Damem St Chicago 47 Ill
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 N Y "G-E"
Hevi Duty Electric Co 3002 Burleigh St Milwaukee 1 Wis
Peer Inc 1000 Cross St Benton Harbor Mich "Peer" "Pier-Ace"

## TRANSFORMER, Electric—continued

Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich

**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

**TRANSMISSION FLUID — See Fluid, Transmission**

**TRANSMISSION LININGS — See Linings, Transmission**

**TRANSMISSION TOOLS—See Tools, Transmission**

## TRANSMISSIONS, Auto, Truck and Bus

(For individual gears, see Gears, Transmission)

**CLARK EQUIPMENT CO TRANSMISSION DIV 1300 Fainbee Rd Jackson Mich "Step - Matic" "Clark TransVerter" (Track and bus)**

**COTTA TRANSMISSION CO 2340 11th St Rockford Ill (Heavy duty)**

**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer" (Bus and truck "Spicer Presto-matic" semi-automatic for trucks)**

Detroit Transmission Div General Motors Corp Willow Run Mich (Mailing address Ypsilanti Mich) "Hydra-Matic"

F A B Mfg Co 1249 67th St Oakland 8 Calif (Transfer case and power divider)

**FULLER MFG CO TRANSMISSION DIV Prouty St Kalamazoo Mich (Truck)**

**ROCKWELL-STANDARD CORP TRANSMISSION & AXLE DIV 100 Clark Ave Detroit 32 Mich**

Twin Disc Clutch Co 1328 Racine St Racine Wis

Warner Gear Div Borg-Warner Corp 1106 E Seymour St Muncie Ind (Also automatic)

## TRANSMISSION, Auxiliary (Auto Truck, Bus, Etc.)

**COTTA TRANSMISSION CO 2340 11th St Rockford Ill**

**DANA CORP 4100 Bennett Rd Toledo 1 Ohio "Spicer" (Truck)**

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich

Truckstell Mfg Co 3490 W 140th St Cleveland 11 Ohio (Three speed power divider for trucks)

Warner Gear Div Borg-Warner Corp 1106 E Seymour St Muncie Ind (Overdrive unit)

Watson Co H S 1316 67th St Emeryville 8 Calif "Watson-Brown-Lipe" (For trucks)

## TRANSMISSIONS, Industrial Truck

Warner Gear Div Borg-Warner Corp 1106 E Seymour St Muncie Ind

## TRANSMISSIONS, Torque Converter (Auto and Truck)

Allison Div General Motors Corp P O Box 894 Indianapolis 6 Ind "Allison Torqmatic Drives" (With retarder for trucks)

**COTTA TRANSMISSION CO 2340 11th St Rockford Ill**

Western Gear Corp 2600 E Imperial Highway Lynwood Calif

## TRANSMISSIONS, Variable Speed (Industrial)

**COTTA TRANSMISSION CO 2340 11th St Rockford Ill**

Fuller Mfg Co Transmission Div Prouty St Kalamazoo Mich

Funk Mfg Co 1211 W 12th St Coffeyville Kans

Graham Transmissions Inc Menomonee Falls Wis

Hawk Tool & Engrg Co 20 W Washington St Clarkston Mich "Maximatic" (Automatic)

Lima Electric Motor Co Findlay Rd Lima Ohio (Gearshift)

Link-Belt Co Dept 60-AIPG Prudential Plaza Chicago 1 Ill "PIV" "RSPIV"

Lovejoy Flexible Coupling Co 5000 W Lake St Chicago 44 Ill

Oilgear Co 1560 W Pierce St Milwaukee 4 Wis

Salsbury Corp 1161 E Florence Ave Los Angeles 1 Calif

Sterling Electric Motors Inc 5401 Telegraph Rd Los Angeles 22 Calif "Speed-Trol"

Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich

## TREADS, Safety

(For bus steps and cab interiors)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum)

American Abrasive Metals Co 460 Coit St Irvington 11 N J "Alumalun" "Feralum"

Bustin Steel Products Inc Dover N J "Bustin Firm-Grip"

Standard Products Co 2130 W 110th St Cleveland 2 Ohio

## TREATING, Heat

Alpha Industries Inc 615 Center St Logansport Ind

Brown Corp 213 Bellevue Ave Syracuse N Y

Burgess-Norton Mfg Co 737 Peyton St Geneva Ill

Burke Steel Co 30 Sherer St Rochester 2 N Y

Canton Drop Forging & Mfg Co 207 12th St S E Canton Ohio

Clapp Mfg Co E D 305 W Genesee St Auburn N Y

Commercial Steel Treating Corp 6100 Tireman Ave Detroit 4 Mich

Defiance Screw Machine Products Div of Serrick Corp 733 Perry St Defiance Ohio

**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa**

Hartford Machine Screw Co P O Box 1440 Hartford Conn "Stanscrew"

Induction Heating Corp 181 Wythe Ave Brooklyn 11 N Y

Interstate Drop Forge Co 4051 N 27th St Milwaukee 16 Wis

Kolene Corp 12890 Westwood Ave Detroit 23 Mich (Salt bath)

Ladish Co 5481 S Packard Ave Cudahy Wis

Ludlum Steel Co Watervliet N Y

Michigan Plating & Stamping Co 740 Ann St N W Grand Rapids Mich

Porter Forge and Furnace Inc 74 Foley St Somerville 43 Mass

Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y (Magnesium and aluminum)

Spring Div Borg-Warner Corp Madison St & 25th Ave Bellwood Ill

Thurner Heat Treating Co 809 W National Ave Milwaukee Wis

Woodworth Co N A 1300 E Nine Mile Rd Detroit 20 Mich

**TRIMMERS' CLIPS—See Fasteners, Molding and Trim**

**TRIMMING PRESSES — See Presses, Trimming**

## TRIMS, Metal (Auto)

(See also Handles, Car Door; Hinges, Door [Auto]; Locks, door [Auto]; Moldings)

American Name Plate & Mfg Co 4254 W Arthington St Chicago 24 Ill "Anco" (Decorated)

Applied Arts Corp 365 Lane Ave S W Grand Rapids 2 Mich

Croname Inc 6217 Howard St Chicago 48 Ill

Detroit Gasket & Mfg Co 12640 Burt Rd Detroit 23 Mich "Dee-Gee"

Douglas & Lomason Co 5836 Lincoln Ave Detroit 8 Mich "D & L"

Electric Autolite Co Toledo 1 Ohio "Autolite"

Electro Chemical Engraving Co 1100 Brook Ave N Y 56 N Y

Firestone Steel Products Co 1600 Firestone Parkway Akron 1 Ohio (Aluminum)

Forest City Products Inc Industrial Products Div 722 Bolivar Rd Cleveland 15 Ohio (Metallic backed plastic)

Fox Co 3400 Beekman St Cincinnati 23 Ohio (Stainless)

Gem Mfg Co 2535 South State St Chicago 16 Ill (Fender hood and headlight)

Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich

Perfection Automotive Products Corp 925 W Elizabeth St Detroit 1 Mich (Chrome body and fender)

Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio (Stainless)

Reynolds Metals Co 6601 Broad St Richmond 19 Va (Aluminum)

Roll Formed Products Co 3765 Oakwood Ave Youngstown O

United Metal Craft Co 800 Lowell St Ypsilanti Mich

Welded Products Div of Thomson Electric Welder Co 3020 N Water St Bay City Mich (Stainless)

Young Spring & Wire Corp 9200 Russell St Detroit 11 Mich

## TRIMS, Upholstery (Auto)

Ionia Mfg Co Div of Mitchell-Bentley Corp 121 S Dexter St Ionia Mich

Monadnock Mills 1977 First Ave San Leandro Calif

Nafi Corp 527 23rd Ave Oakland 6 Calif (Interior)

Sun Rubber Co Industrial Products Div 9 Fairview Ave Barberton Ohio (Vinyl plastic foam trim pads)

## TROLLEYS, Monorail

American Monorail Co 1111 E 200th St Cleveland 17 Ohio

Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich

Borg-Warner Industrial Cranes 1536 S Paulina St Chicago 8 Ill (Electric)

Buschman Co E W Spring Grove & Clifton Aves Cincinnati 32 Ohio

Chisholm-Moore Hoist Div Columbus McKinnon Chain Corp Freemont Ave Tonawanda N Y "Matchless" "Moore"

Coffing Hoist Div Duff-Norton Co 800 Walter St Danville Ill (I-beam)

Conco Engrg Works Inc Mendota Ill

Curtis Mfg Co Pneumatic Div 1927 Kienlen Ave St Louis 33 Mo

Euclid Crane & Hoist Co Euclid Ohio

Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P&H"

Harrington Co Graves Rd at Turnpike Plymouth Meeting Pa

Louden Machinery Co 1102 West Ave Fairfield Iowa

Northern Engineering Works 210 Chene St Detroit 7 Mich

Ohio Hoist Mfg Co 321 S Beaver St Lisbon Ohio

Palmer-Bee Co 3000 Opdyke Rd Bloomfield Hills Mich

Richards-Wilcox Mfg Co Third St & C B & Q R R Tracks Aurora Ill

Robbins & Myers, Inc Lagonda Ave Springfield Ohio "R & M"

Round & Son David Box 198 Cleveland 39 Ohio "Beam-Way"

Saginaw Products Corp 68 Williamson St Saginaw Mich

Shepard Niles Crane & Hoist Corp Montour Falls N Y

Webb Co Jervis B 8925 Alpine Ave Detroit 4 Mich

Whiting Corp 157th & Lathrop Sts Harvey Ill

**TRUCK BODY PARTS — See Parts, Truck Body**

**TRUCK CASTERS—See Casters, Truck**

**TRUCK CONVEYORS, FLOOR TYPE — See Conveyors, Truck and Trailer (Floor Type)**

**TRUCK FLOOR COVERINGS—See Coverings, Floor (Bus or Truck)**

**TRUCK FLOOR PLATES—See Plates, Floor (Truck and Bus)**

**TRUCK FRAMES (SWIVEL) — See Frames, Truck (Swivel)**

**TRUCK LOADERS (ELEVATING TAILGATE) — See Loaders, Truck (Elevating Tailgate)**

**TRUCK LOADING RAMPS — See Ramps, Truck Loading**

**TRUCK TANKS — See Tanks, Trailer and Truck Body**

## TRUCKS, Factory (Hand)

Aerol Co 1731 Workman St Los Angeles 31 Calif

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa

Angle Steel Inc 56 Oak St Plainwell Mich "ASI"

Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill

Barrett-Cravens Co 630 Dundee Rd Northbrook Ill

Bernard-Franklin Co Hedley & Bath Sts Philadelphia 37 Pa. "BFC"

Bernard Gloeker North East Co Robinson & Wall Sts North East Pa "BG"

Bishman Mfg Co Route 2 Osseo 26 Minn "Start Cart" (Battery)

Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich

Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"

Buschman Co E W Spring Grove & Clinton Aves Cincinnati 32 Ohio "Wheel-it"

Cam Tool Co 288 22nd St Oakland 12 Calf "Ormsby"

Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Powrworker" (Electric powered)

Colson Corp Elyria Ohio

Continental-Diamond Fibre Corp Newark 2 Del "Diamond" (Fibre)

Cragin & Wilkins Co 79 Nockege St Fitchburg Mass "George"

Dico Co 200 S W 16th St Des Moines 5 Iowa

Durlach Can & Iron Works 325 Spring St New York N Y

Factory Service Co 4615 N 21st St Milwaukee 9 Wis "Turner System"

Fairbanks Co 393 Lafeyette St New York 3 N Y
French & Hecht Div Kelsey-Hayes Co P O Box 690 Davenport Iowa
Hamilton Caster & Mfg Co 1517 Dixie Highway Hamilton Ohio
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Jakes Foundry Co P O Box 1275 Nashville Tenn
Koehring Co 3026 W Concordia Ave Milwaukee 10 Wis "Dumptor"
Langsenkamp Co F H 229 E South St Indianapolis 25 Ind
Lansing Co 521 N Cedar St Lansing 3 Mich "Lanco"
**LEWIS CO G B 426 Montgomery St Watertown Wis (Wood and plastic)**
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "FloorMaster"
Lift Trucks Inc Spring Grove St Cincinnati 1 Ohio "Red Arrow"
Magline Inc 952 Murray Rd Pinconning Mich "Magliner"
Magnesium Co of America 155 S E Tenth Ave Hialeah Fla "Magcoa-Tobey"
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
National Vulcanized Fibre Co Maryland Ave & Beech Sts Wilmington 99 Del "Kennett"
Nutting Truck & Caster Co 1201 W Division St Fairbault Minn
Orangeville Mfg Co Orangeville Pa
Rapids-Standard Co Rapistan Bldg Grand Rapids 2 Mich "Rapistan"
Raymond Corp 151 Madison St Greene N Y "Raymond Walkie" (Battery operated)
Sabin Machine Co 6536 Carnegie Ave Cleveland 3 Ohio
Sage Equipment Co 30 Essex St Buffalo 13 N Y
Saginaw Products Corp 68 Williamson St Saginaw Mich
Selma Trailer & Mfg Co 3111 Highway 99 Selma Calif
Thomas Truck & Caster Co 931 Mississippi River Keokuk Iowa "Jak-Tung" "Thomas"
West Bend Equipment Corp 216 S Water St West Bend Wis "Spring Bearing"
Western Gear Corp 2600 E Imperial Highway Lynwood Calif "Tug-Bar" (Motorized for moving cars and trucks in warehouses garages etc)
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRUCKS, Fire (Industrial)

American-LaFrance 100 E LaFrance St Elmira N Y "Alfite" "Arctic" "Challenger" "Foamite"
Cardox Corp 840 N Michigan Ave Chicago 1 Ill (CO2)
Kalamazoo Mfg Co 1827 Reed St Kalamazoo Mich
Pirsch & Sons Co Peter 1308 35th St Kenosha Wis
Safety Fire Extinguisher Co 293 Seventh Ave New York 1 N Y "Ajax"
Seco Engrg & Mfg Inc 1300 W Fort St Detroit 26 Mich
Yankee Motor Bodies Corp 1224 E Olympia St Los Angeles 2 Calif (Airport crash)

## TRUCKS, Fire (Including Equipment)

American-LaFrance 100 E LaFrance St Elmira N Y (Gasoline)
Crown Coach Corp 2500 E 12th St Los Angeles 21 Calif
FWD Corp E 12th St Clintonville Wis
Federal Motor Truck Co 834 N Seventh St Minneapolis 11 Minn
Gichner Iron Works Inc Fred S 1214 24th St N W Washington 7 D C
Hahn Motors Inc 400 S Third St Hamburg Pa
Howe Fire Apparatus Co 1402 W 22nd St Anderson Ind
Mack Trucks Inc 1000 S Second St Plainfield N J
Maxim Motor Co 170 Wareham St Middleboro Mass
Monatco Mfg Corp 2214 Front St Kansas City 1 Kans
Oren Roanoke Corp 1201 W Salem Ave Roanoke Va
Pirsch & Sons Co Peter 1308 35th St Kenosha Wis
Seagrave Corp 2000 S High St Columbus Ohio
Universal Fire Apparatus Corp Ft of Wheatland Ave Logansport Ind
Walter Motor Truck Co School Rd Voorheesville N Y
Ward-LaFrance Truck Corp Elmira N Y

## TRUCKS, Industrial (Diesel)

Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Clark-Ross" (Straddle type)
Getman Bros Mfg Div South Haven Mich (Ore carriers)
Hyster Co 2902 NE Clackamas St Portland 8 Ore
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y "Silent Hoist Strad-krane" (Straddle type)

## TRUCKS, Industrial (Electric)

Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Dynamotive" "Transporter"
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Cushman Motor Works Inc 920 N 21st St Lincoln Nebr
Custer Specialty Co 139 Bradford St Dayton 10 Ohio
Electric Pony Express Co 1753 Blake Ave Los Angeles 31 Calif "Pony Express"
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Kalamazoo Mfg Co 1827 Reed St Kalamazoo Mich
Laher Spring & Electric Car Corp 2615 Magnolia St Oakland 7 Calif
Lewis-Shepard Products Inc 1050 Walnut St Watertown 72 Mass "ToteMaster"
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Moto-Truc Co 1953 E 59th St Cleveland 3 Ohio
Raymond Corp 151 Madison St Greene N Y
Wayne Mfg Co 1201 E Lexington St Pomona Calif "Autoette" (For personnel)
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRUCKS, Industrial (Gasoline)

Allis-Chalmers Mfg Co Engine Material Handling Div 1135 S 70th St Milwaukee 1 Wis
Automatic Transportation Co Divs Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Dynamotive"
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Clark-Ross" (Straddle type)
Cushman Motor Works Inc 920 N 21st St Lincoln Nebr
Gerlinger Carrier Co Lyle & Birch Sts Dallas Ore (Straddle)
Getman Bros Mfg Div South Haven Mich "Getman" (Platform; "Scoot-Crete" dump)
"HH" Mfrs 2224 Cerritos Ave Long Beach 6 Calif
Hough Co Frank G 801 Sunnyside Ave Libertyville Ill "Payloader"
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Hyster Co 2902 NE Clackamas St Portland 8 Ore
Kalamazoo Mfg Co 1827 Reed St Kalamazoo Mich "Kalamazoo" "Kal-Truk" (Dump)
Knickerbocker Co 603 Liberty St Jackson Mich "Truck-man"
Kwik-Mix Co 235 W Grand Ave Port Washington Wis "Moto-Bug" (Also LP-Gas)
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y "Silent Hoist Strad-krane" (Straddle type)
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa (Also LP-Gas)

## TRUCKS, Lift (Diesel Powered)

Allis-Chalmers Mfg Co Milwaukee 1 Wis
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Yardlift" "Clarklift" "Ranger"
Getman Bros Mfg Div South Haven Mich
Hyster Co 2902 NE Clackamas St Portland 8 Ore
Minneapolis-Moline Co Hopkins Minn
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y "Liftruk"
Towmotor Corp 1226 E 152nd St Cleveland 10 Ohio
Transitier Truck Co 5475 N Lagoon Ave Swan Island Portland 11 Ore "Pettibone-Mercury"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRUCKS, Lift (Electrically Operated)

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
Automatic Transportation Co Div Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Automatic" "Docker" "Dynamotive" "Elbolift" "Skylift" "Transrider" "Transveyor" "Transporter"
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Big Joe Mfg Co 900 W Jackson Blvd Chicago 7 Ill
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Carloader" "Clarklift" "Truloader" "Utilitruc"
Economy Engrg Co 4511 W Lake St Chicago 24 Ill "Walkie-Worklifter"
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio (Also gas-electric)
Excelsior Plimptruck Co 796 Atlantic St Stamford Conn
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass ("Jack Lift" "Jackstacker" "Power Master" "SpacerMaster" also gas-electric)
Lift Trucks Inc Spring Grove St Cincinnati 14 Ohio "Hydrolectric"
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Minneapolis-Moline Co Hopkins Minn
Moto-Truc Co 1953 E 59th St Cleveland 3 Ohio
Raymond Corp 151 Madison St Greene N Y
Revolvator Co 2026 86th St North Bergen N J "Gogetter"
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio
West Bend Equipment Corp 216 S Water St West Bend Wis "Weld-Bilt Rider Boy"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRUCKS, Lift (Gasoline Powered)

Allis-Chalmers Mfg Co Milwaukee 1 Wis (Also LP-Gas)
Automatic Transportation Co Div of Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Dynamotive"
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Also gas-electric; also LP-G)
Clark Equipment Co Industrial Truck Div Lafayette & 24th Sts Battle Creek Mich "Carloader" "Clipper" "Ranger" "Truloader" "Utilitruc"; "Clipper" "Yardlift" (LP-G)
Erickson Power Lift Trucks Inc St Anthony Blvd & University Ave N E Minneapolis 18 Minn (Fork and platform types)
Gerlinger Carrier Co Lyle & Birch Sts Dallas Ore
Getman Bros Mfg Div South Haven Mich
"HH" Mfrs 2224 Cerritos Ave Long Beach 6 Calif
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Hyster Co 2902 NE Clackamas St Portland 8 Ore
Kwik-Mix Co 235 W Grand Ave Port Washington Wis "Hi-Lifter" "Moto-Bug" (Also LP-Gas)
Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "Spacemaster" (Gas-electric)
Minneapolis-Moline Co Hopkins Minn "Mobillift" (Also LP-G)
Ottawa Steel Div Young Spring & Wire Corp 435½ S Main St Ottawa Kans "Ottawa Tracto-Lift"
Peterbilt Motors Co 107th Ave & McArthur Blvd Oakland Calif "MacDonald"
Silent Hoist & Crane Co 841 63rd St Brooklyn 20 N Y "Liftruk" & "Lift-O-Krane"
Towmotor Corp 1226 E 152nd St Cleveland 10 Ohio (Also LP-Gas)
Transitier Truck Co 5475 N Lagoon Ave Swan Island Portland 11 Ore "Pettibone-Mercury"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa

## TRUCKS, Lift (Hand Operated)

Automatic Transportation Co Divs Yale & Towne Mfg Co 101 W 87th St Chicago 20 Ill "Transporter" "Transveyor" (Motorized)
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Big Joe Mfg Co 900 Jackson Blvd Chicago 7 Ill
Colson Corp Elyria Ohio
Excelsior Plimptruck Co 796 Atlantic St Stamford Conn "Plimptruck" (Hydraulic)
Factory Service Co 4615 N 21st Milwaukee 9 Wis "Turner System"
Grand Specialties Co 3113 W Grand Ave Chicago 22 Ill "Shop Caddy" "Lift Stacker" (Hydraulic)
Hartman Metal Fabricators Inc Waterloo N Y "Booster" (Hydraulic)

## TRUCKS, Lift (Hand Operated)—cont'd

Lewis-Shepard Products Inc 1050 Walnut St Watertown Mass "JackLift" "FootLift" (Hydraulic; "JackLift" & "SpeedLift" "RedLift" "QuickLift" mechanical)
Revolvator Co 2026 86th St North Bergen N J "Red Giant"
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio
West Bend Equipment Corp 216 S Water St West Bend Wis "Weld-Bilt"
Yale & Towne Mfg Co Yale Materials Handling Div 11000 Roosevelt Blvd Philadelphia 15 Pa (Motorized)

## TRUCKS, Motor (Diesel)

American Coleman Co 301 S Nevada Ave Littleton Colo
Autocar Div White Motor Co Lancaster Ave Exton Pa
Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla
Brockway Motor Trucks Div of Mack Trucks Inc 106 Central Ave Cortland N Y
Challenge-Cook Bros Equipment Co 3334 San Fernando Rd Los Angeles 65 Calif "Earth King"
Cline Truck Co 3501 Gardner Ave Kansas City 20 Mo
Corbitt Co Parham St Henderson N C
Diamond T Motor Truck Co 4401 W 26th St Chicago 23 Ill
Duplex Div Warner & Swasey Co Hazel St Lansing 4 Mich
Euclid Div General Motors Corp 1361 Chardon Rd Cleveland 17 Ohio (Dump off-highway)
FWD Corp E 12th St Clintonville Wis
Federal Motor Truck Co 834 N 7th St Minneapolis 11 Minn
Freightliner Corp 5400 N Basin Ave Portland 17 Ore "White-Freightliner" (Sole distributors White Motor Co 842 E 79th St Cleveland 1 Ohio)
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich
Hendrickson Mfg Co 8001 W 47th St Lyons Ill
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill
KW-Dart Truck Co 1301 N Manchester St Kansas City 20 Mo (Off-highway)
Kenworth Motor Truck Co 8801 E Marginal Way Seattle 8 Wash
Le Tourneau-Westinghouse Co 2301 N Adams St Peoria Ill "Haulpak" (Off-highway)
Mack Trucks Inc 1000 S Second St Plainfield N J
Oshkosh Motor Truck Inc 2300 Oregon St Oshkosh Wis
Parsons Co Newton Iowa "Dumptor" (Off-highway)
Peterbilt Motors Co 107th Ave & MacArthur Blvd Oakland 5 Calif
Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich
Sicard Industries Inc 753 W Main St Watertown N Y (Rotary snow plows and street flushers)
Walter Motor Truck Co School Rd Voorheesville N Y (Also snow fighters)
Ward-LaFrance Truck Corp Elmira N Y
White Motor Co 842 E 79th St Cleveland 1 Ohio

## TRUCKS, Motor (Electric)

Cleveland Vehicle Co 3949 Lakeside Ave Cleveland 14 Ohio "C-V" (Multi-stop delivery)
Cushman Motor Works Inc 920 N 21st St Lincoln Nebr "Cushman Truckster" (Light delivery)
Custer Specialty Co 139 Bradford St Dayton 10 Ohio (Light delivery)

## TRUCKS, Motor (Gasoline)

American Coleman Co 301 S Nevada Ave Littleton Colo
Autocar Div White Motor Co Lancaster Ave Exton Pa
Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla
Brockway Motor Trucks Div of Mack Trucks Inc 106 Central Ave Cortland N Y
Challenge-Cook Bros Equipment Co 3334 San Fernando Rd Los Angeles 65 Calif "Load King"
Champion Carriers Inc 65 N Madison St (P O Box 2651) Tulsa Okla (Off-highway)
Chevrolet Motor Div of General Motors Corp General Motors Bldg Detroit 2 Mich "Chevrolet" "Corvair"
Cline Truck Co 3501 Gardner Ave Kansas City 20 Mo
Corbitt Co Parham St Henderson N C
Crofton Marine Engine Co 888 Gull St San Diego 1 Calif "Crofton Bug" (Utility)
Crown Coach Corp 2500 E 12th St Los Angeles 21 Calif
Cushman Motor Works Inc 920 N 21st St Lincoln Nebr "Cushman Truckster" (Light delivery)
Diamond T Motor Truck Co 4401 W 26th St Chicago 23 Ill
Divco Truck Div Divco-Wayne Corp 22000 Hoover Rd Detroit 5 Mich (Door to door delivery)
Dodge Div Chrysler Corp 7900 Joseph Campau Ave Detroit 31 Mich
Duplex Div Warner & Swasey Co Hazel St Lansing 4 Mich
F A B Mfg Co 1249 67th St Oakland 8 Calif "Fabco"
FWD Corp E 12th St Clintonville Wis
Federal Motor Truck Co 834 N 7th St Minneapolis 11 Minn
Ford Div Ford Motor Co Rotunda Div at Southfield Ave Dearborn Mich
Fox Body Co 1111 W Racine St Janesville Wis "Lift-Dek"
GMC Truck & Coach Div General Motors Corp 660 South Blvd E Pontiac 11 Mich
Hendrickson Mfg Co 8001 W 47th St Lyons Ill
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill
KW-Dart Truck Co 1301 N Manchester St Kansas City 20 Mo (Off-Highway)
Kenworth Motor Truck Co 8801 E Marginal Way Seattle 8 Wash
Lofstrand Co 2000 Southlawn Lane Rockville Md (Light delivery)
Mack Trucks Inc 1000 S Second St Plainfield N J
Marmon-Herrington Co 1511 W Washington St Indianapolis 7 Ind
Milford Crane & Machine Co 143 Buckingham Ave Milford Conn (Crane-truck)
Oshkosh Motor Truck Inc 2300 Oregon St Oshkosh Wis
Peterbilt Motors Co 107th Ave & MacArthur Blvd Oakland 5 Calif
Reo Div White Motor Co 1331 S Washington Ave Lansing 20 Mich (Also LP-G)
Sicard Industries Inc 753 W Main St Watertown N Y (Rotary snow plows and street flushers)
Studebaker-Packard Corp 635 S Main St South Bend 27 Ind
Walter Motor Truck Co School Rd Voorheesville N Y (Also snow fighters)
Ward-LaFrance Truck Corp Elmira N Y
White Motor Co 842 E 79th St Cleveland 1 Ohio
Willys Motors Inc 940 N Cove Blvd Toledo 1 Ohio (Also jeeps station wagons and utility vehicles)
Wolf Engrg Corp 1201 Main St Dallas Tex "Wolfwagon"

## TRUCKS, Motor (LP-Gas)

Brockway Motor Trucks Div of Mack Trucks Inc 106 Central Ave Cortland N Y
Cline Truck Co 3501 Gardner Ave Kansas City 20 Mo
International Harvester Co Harvester Bldg 180 N Michigan Ave Chicago 1 Ill

## TRUCKS, Oven

Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Kirk & Blum Mfg Co 3149 Forrer St Cincinnati 9 Ohio "K & B"
Ross Engrg Div Midland-Ross Corp J O 730 Third Ave New York 17 N Y
Young Bros Co 1831 Columbus Rd Cleveland 13 Ohio

## TRUCKS, Special Purpose

**(Dump, crane, bale, roll, etc.)**

American Pulley Co 4200 Wissahickon Ave Philadelphia 29 Pa
Available Truck Co Div of Crane Carrier Corp P O Box 5008 Tulsa Okla
Baker Industrial Trucks Div of Otis Elevator Co 8000 Baker Ave Cleveland 2 Ohio (Electric or gas-electric)
Barrett-Cravens Co 630 Dundee Rd Northbrook Ill
Colson Corp Elyria Ohio
Dico Co 200 S W 16th St Des Moines 5 Iowa
Economy Engrg Co 4511 W Lake St Chicago 24 Ill (Hand drum)
Elwell-Parker Electric Co 4205 St Clair Ave Cleveland 3 Ohio
Ernst Inc Chas K 1001 E Ferry St Buffalo N Y "Ernst Drumobile" (Drum and barrel)
Factory Service Co 4615 N 21st Milwaukee 9 Wis "Turner System"
Fairbanks Co 393 Lafayette St N Y 3 N Y (Barrel)
Hamilton Caster & Mfg Co 1517 Dixie Highway Hamilton Ohio
Howell Industrial Device Co 1083 Erie Cliff St Cleveland 7 Ohio "Hidco"
Hyster Co 2902 NE Clackamas St Portland 8 Ore
Independent Iron Works Inc 8th & Pine Sts Oakland 20 Calif
Kalamazoo Mfg Co 1827 Reed St Kalamazoo Mich "Xpediter" (Hydraulic and hand)
Mahon Co R C 6565 E Eight Mile Rd Detroit 34 Mich (Core rack)
Mercury Mfg Co 4700 W Division St Chicago 51 Ill
Nutting Truck & Caster Co 1201 W Division St Fairbault Minn (Barrel)
Orangeville Mfg Co Orangeville Pa
Raymond Corp 151 Madison St Greene N H
Sabin Machine Co 6536 Carnegie Ave Cleveland 3 Ohio (For drums coils boxes etc)
Stratton Equipment Co 2030 E 105th St Cleveland 6 Ohio (Barrel)
West Bend Equipment Corp 216 S Water St West Bend Wis (Drum and barrel)
Wilson's Sons Inc Wm M 8th St & Franconia Ave Lansdale Pa "Gasboy"
Wood Co John Bennett Pump Div Broadway & Wood Sts Muskegon Mich "Bennett" (Drum)

**TRUNK GUARDS — See Guards, Radiator Grille, Fender and Trunk**

**TUBE BENDERS—See Benders, Tube**

**TUBE BENDINGS—See Bendings, Tubular**

**TUBE FLARING MACHINES—See Machines, Tube Flaring**

**TUBE FLARING TOOLS—See Tools, Tube Flaring**

**TUBE MAKING MACHINES—See Machines Tube Making**

**TUBES, IGNITION CABLE — See Conduit, Flexible Car Wiring**

## TUBES, Inner

Armstrong-Norwalk Rubber Corp Glover Ave Norwalk Conn "Armstrong" & "Norwalk"
Armstrong Rubber Co 475 Elm St West Haven 16 Conn
Carlisle Tire & Rubber Div Carlisle Corp 621 N College St Carlisle Pa
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Corduroy Rubber Co Fuller Ave & G T Tracks Grand Rapids 1 Mich
Cupples Co Rubber Div 600 Spruce St St Louis 27 Mo "Air Seal" "Black Eagle" "Blue Ribbon" "Safe Rider"
Dayton Tire & Rubber Co Div of Dayco Corp 2342 Riverview Ave Dayton Ohio "Dayton Thorobred"
Denman Rubber Mfg Co P O Box 951 Warren Ohio
Dunlop Tire & Rubber Corp Sheridan Dr & River Rd Buffalo 5 N Y
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio "Life Protector"
Fisk Tire Div of U S Rubber Co 1230 Ave of the Americas New York 20 N Y
Gates Rubber Co 999 S Broadway Denver 17 Colo "Gates Vulco"
General Tire & Rubber Co Englewood & Holmes Ave Akron Ohio
Goodrich Tire Co B F 500 S Main St Akron Ohio
Goodyear Tire & Rubber Co E Market St Akron 16 Ohio
Inland Rubber Corp 515 Newman St Mansfield Ohio
Kelly-Springfield Tire Co P O Box 300 Cumberland Md
Laher Tire & Rubber Co of Calif 26th & Magnolia Sts Oakland Calif "Mustang"
Lee Rubber & Tire Corp Conshohocken Pa
McCreary Tire & Rubber Co Box 700 Indiana Pa
Mansfield Tire & Rubber Co 515 Newman St Mansfield Ohio
Miller Rubber Co Div of B F Goodrich Co 500 S Main St Akron Ohio
Mohawk Rubber Co 1235 Second St Akron 5 Ohio
Pennsylvania Tire Co P O Box 377 Mansfield Ohio "Penn-Craft"
Polson Rubber Co Garrettsville Ohio "Airlox" "Champion" & "Polson"
Pure Oil Co 35 E Wacker Drive Chicago 1 Ill
Robbins Tire & Rubber Co Box 230 Tuscumbia Ala
Schenuit Rubber Co Frank S Railroad & Union Aves Baltimore 11 Md
Seiberling Rubber Co Akron 9 Ohio
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y "U S Royal"

**TUBES, PORCELAIN—See Insulators, Spark-Plug**

## TUBES, Spacer

**FEDERAL-MOGUL DIV FEDERAL-MOGUL-BOWER BEARINGS INC 11031 Shoemaker Ave Detroit 13 Mich (Steel or aluminum)**

## TUBING, Aluminum

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa "Alcoa"
Anaconda Aluminum Co P O Box 1654 Louisville Ky

Bohn Aluminum & Brass Corp 1400 Lafayette Bldg Detroit 26 Mich
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Alumiflex"
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich
Harvey Aluminum 19200 S Western Ave Torrance Calif
Linderme Tube Co 1500 E 219th St Cleveland 17 Ohio (Seamless)
Olin Mathieson Chemical Corp Metals Div 400 Park Ave N Y 22 N Y
Penn Brass & Copper Co 3837 W 20th St Erie Pa "Quality" (Seamless copper)
Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa
Revere Copper and Brass Inc 230 Park Ave N Y 17 N Y
Reynolds Metals Co 6601 Broad St Richmond 19 Va
Roll Formed Products Inc 3765 Oakwood Ave Youngstown Ohio
Troy Sunshade Co Troy Ohio
Uniform Tubes Inc Collegeville Pa
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 R I
Wolverine Tube Div of Calumet & Hecla Inc 17200 Southfield Rd Allen Park Mich

## TUBING, Brass and Copper

Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn
Anaconda American Brass Co Small Tube Div 128 Robbins St Waterbury 20 Conn (Special small diameter; also soft copper)
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex" (Copper)
Exello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich
H & H Tube & Mfg Co 263 N Forman St Detroit 17 Mich
Kensico Tube Co Hubbell's Cross Rd Mt Kisco N Y (Copper)
Linderme Tube Co 1500 E 219th St Cleveland 17 Ohio (Seamless copper)
Mueller Brass Co 1925 Lapeer Ave Port Huron Mich (Copper)
National Copper & Smelting Co 1862 E 123rd St Cleveland 6 Ohio
National Ignition Mfg Co 88-06 Van Wyck Expressway Jamaica 18 N Y (Copper)
Penn Brass & Copper Co 3837 W 20th St Erie Pa "Quality" (Seamless copper)
Perfect Parts Inc 43 W 23rd St N Y 10 N Y (Copper)
Planet Metal Products Corp 964 Dean St Brooklyn 38 N Y (Copper)
Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y (Copper)
Revere Copper and Brass Inc 230 Park Ave New York 17 N Y
Roll Formed Products Co 3765 Oakwood Ave Youngstown Ohio
Scovill Mfg Co Screw Products & Forging Div 99 Mill St Waterbury 20 Conn
Superior Tube Co P O Box 191 Norristown Pa (Beryllium copper)
Uniform Tubes Inc Collegeville Pa
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 R I
Velvac Inc 3534 W Pierce St Milwaukee 15 Wis.
Wells & Co Inc 181 E Aurora St Waterbury 20 Conn
Wolverine Tube Div of Calumet & Hecla Inc 17200 Southfield Rd Allen Park Mich

**TUBING CLIPS—See Clips, Cable and Tubing (Auto)**

**TUBING CUTTERS—See Cutters, Tubing**

**TUBING, DEFROSTER—See Hose, Defroster**

**TUBING, FIBRE—See Fibre, Hard**

**TUBING FITTINGS—See Fittings, Tube**

**TUBING, FLEXIBLE CONTROL — See Conduit, Flexible Car Wiring**

## TUBING, Flexible Metallic

**(Crimped or wound tubing for exhaust piping, carburetors, heaters, speedometer shaft coverings, wire coverings, etc.; see also Tubing, Oil and Gasoline Line)**

Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa
Anaconda Metal Hose Div American Brass Co 698 S Main St Waterbury 20 Conn
Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y (For exhaust gas air oil etc)
Continental Rubber Works 1946 Liberty St Erie Pa
Co-Operative Industries Inc 100 Oakdale Rd Chester N J "Duraflex"
D'Nomlart Inc 100 Maple St Ashburnham Mass "Almond"
**FLEXONICS CORP AUTOMOTIVE DIV 2021 S Latham St Memphis Tenn**
Forsyth Metal Goods Co Elm St East Aurora N Y
Gabriel Co 1523 E 45th St Cleveland 3 Ohio
International Metal Hose Co Ashford Ave Bellevue Ohio
Revere Copper and Brass Inc 230 Park Ave N Y 17 N Y
Titeflex Inc Hendee St Springfield 4 Mass (For gas oil air lines exhaust connections etc)
Universal Metal Hose Co 2133 S Kedzie Ave Chicago 23 Ill "Econoflex" "Steelflex" "Nicroflex"

**TUBING, HARD RUBBER—See Rubber, Hard**

## TUBING, Hydraulic Line

**BABCOCK & WILCOX CO TUBULAR PRODUCTS DIV Beaver Falls Pa**
**REPUBLIC STEEL CORP STEEL & TUBE DIV 224 E 131st St Cleveland 8 Ohio**

**TUBING, IGNITION — See Conduit, Flexible Car Wiring**

## TUBING, Monel

Bundy Tubing Co 8109 E Jefferson Ave Detroit 14 Mich "Bundyweld"

## TUBING, Nickel Silver

Anaconda American Brass Co Small Tube Div 128 Robbins St Waterbury 20 Conn (Small diameter)
Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa
Superior Tube Co P O Box 191 Norristown Pa
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 R I

## TUBING, Oil and Gasoline Line

AC Spark Plug The Electronics Div of General Motors 1300 N Dort Highway Flint 2 Mich (Flexible)
Aeroquip Corp 300 S East Ave Jackson Mich (Flexible with fittings)
American Coupling Corp 2335 Goodrich St Ferndale 20 Mich "Amcor" (Flexible)
Anaconda Metal Hose Div American Brass Co 698 S Main St Waterbury 20 Conn (Flexible with fittings)
Anchor Coupling Co 342 N Fourth St Libertyville Ill (Flexible)
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y
Avon Tube Div of Higbie Mfg Co Charles St Rochester Mich
Boston Woven Hose & Rubber Co 29 Hampshire St Cambridge Mass
Champ-Items Inc 6191 Maple Ave St Louis 14 Mo
Danielson Mfg Co Danielson Conn "Danco" (Nylon)
Edelman & Co E 2232 Logan Blvd Chicago 47 Ill (Flexible)
Electric Hose & Rubber Co 12th & Dure Sts Wilmington Del
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Everflex" "Copperflex" "Bundyflex" (Flexible)
Excello Accessories Mfrs Inc 81 Madison Ave Hempstead N Y (Flexible)
**FLEXONICS CORP AUTOMOTIVE DIV 2021 S Latham St Memphis Tenn**
Gates Rubber Co 999 S Broadway Denver 17 Colo
**IMPERIAL - EASTMAN CORP 6300 W Howard St Chicago 48 Ill (Flexible)**
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
Motive Equipment Mfrs Inc 5253 W Roosevelt Rd Chicago 50 Ill "Flex-Gas" (Flexible non-metallic with fittings)
National Copper & Smelting Co 1862 E 123rd St Cleveland 6 Ohio
Penn Brass & Copper Co 3837 W 20th St Erie Pa "Quality" (Seamless)
Perfect Parts Inc 43 W 23rd St New York 10 N Y (Flexible)
Preferred Electric & Wire Co Bush Terminal Bldg No 8 Brooklyn 32 N Y
Republic Gear Co 20200 E Nine Mile Rd St Clair Shores Mich
Resistoflex Corp Woodland Rd Roseland N J (Flexible with fittings)
Steel and Tubes Div Republic Steel Corp 224 E 131st St Cleveland 8 Ohio
Titeflex Inc Hendee St Springfield 4 Mass (All-metal flexible)
United States Gasket Co Plastic Div of Garlock Camden 1 N J
United Wire & Supply Co 1497 Elmwood Ave Providence 7 R I
Weatherhead Co Ft Wayne Div 128 W Washington Blvd Ft Wayne Ind (Flexible non-metallic)
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
Whyte Electric Products Co Ray 17630 E Ten Mile Rd East Detroit Mich

**TUBING, PLASTIC — See Plastics, Sheets, Rods, Tubes and Filaments**

## TUBING, Rubber

Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio
Dryden Rubber Div Sheller Mfg Corp 1014 S Kildare Ave Chicago 24 Ill
Faultless Rubber Co 263 Fourth St Ashland Ohio
Firestone Tire & Rubber Co 1200 Firestone Parkway Akron Ohio
Garlock Inc 402 Main St Palmyra N Y
Goodrich Tire Co B F 500 S Main St Akron Ohio
Hewitt-Robins Inc 666 Glenbrook Rd Stamford Conn
Industrial Rubber Goods Co St Joseph Mich
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Mechanical Rubber Products Co Warwick N Y
Mercer Rubber Co Hamilton Square N J
Minnesota Rubber Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn (Silicone)
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Rubatex Div Great American Industries Inc Bedford Va (Cellular)
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Snyder & Son Inc M L 1827 E York St Philadelphia 25 Pa
United States Rubber Co Rockefeller Center 1230 Ave of the Americas New York 20 N Y

## TUBING, Steel

Alexander-Tagg Industries Inc Jacksonville Rd & Summit Ave Hatboro Pa
Allegheny - Ludlum Steel Corp 2020 Oliver Bldg Pittsburgh 22 Pa
American Steel and Wire Div U S Steel Corp Rockefeller Bldg Cleveland 13 Ohio
Armco Steel Corp 703 Curtis St Middletown Ohio (Welded coil rolled and coated)
Arvin Industries Inc 13th St & Big Four RR Columbus Ind
Avon Tube Div of Higbie Mfg Co Charles St Rochester Mich "Fusionweld" (Hydraulic lines brake lines etc)
**BABCOCK & WILCOX CO TUBULAR PRODUCTS DIV Beaver Falls Pa (Seamless and welded carbon alloy and stainless)**
Beall Pipe & Tank Corp 12005 N Burgard St Portland 3 Ore
Bethlehem Steel Co Bethlehem Pa
**BUNDY TUBING CO 8109 E Jefferson Ave Detroit 14 Mich "Bundy" "Bundyweld"**
Carpenter Steel Co Alloy Tube Div Springfield Rd Union N J (Stainless)
Damascus Tube Co Greenville Pa (Stainless)
Dana Corp 4100 Bennett Rd Toledo 1 Ohio "Spicer" (Welded)
Detroit Universal Div Chrysler Corp 6455 Kingsley Ave Dearborn 1 Mich (Welded)
Everhot Products Co 2001 W Carroll Ave Chicago 12 Ill "Bundyflex" (Copper coated)
Falls Steel Tube & Mfg Co 418 Center St Newton Falls Ohio
Fitzsimmons Mfg Co 3775 E Outer Drive Detroit 34 Mich (Welded)
Formed Tubes Inc S Prairie & Albert Sts Sturgis Mich
Hofmann Industries Inc Shillington Rd Sinking Springs Pa (Welded)
**JONES & LAUGHLIN STEEL CORP 3 Gateway Center Pittsburgh 30 Pa**
Laclede Steel Co Arcade Bldg St Louis 1 Mo
Metal Forming Corp 1937 Sterling Ave Elkhart Ind "Mefco" (Welded stainless monel and nickel alloy)

## TUBING, Steel—continued

Michigan Seamless Tube Co 400 West Ave South Lyon Mich (Cold drawn seamless)
Michigan Steel Tube Products Div Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich (Electric welded)
Monroe Auto Equipment Co 1426 E First St Monroe Mich
**NATIONAL TUBE DIV UNITED STATES STEEL CORP 525 Wm Penn Pl Pittsburgh 30 Pa "USS" (Stainless "USS National" seamless)**
Nikoh Tube Co 5000 S Whipple St Chicago 32 Ill (Electric welded)
O E M Products Co 5296 Northwest Highway Chicago 30 Ill (Flexible)
**OHIO SEAMLESS TUBE DIV OF COPPERWELD STEEL CO 132 W Main St Shelby Ohio "Ostuco" (Seamless; "Ohio Special Quality" welded)**
Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa (Seamless)
Pittsburgh Tube Co 212 Wood St Pittsburgh 22 Pa (Cold drawn butt welded)
Porter Inc H K 74 Foley St Somerville 43 Mass "Speedlok" (Coupling for hydraulic jacks)
Pressed Steel Co 705 N Pennsylvania Ave Wilkes-Barre Pa (Welded alloy)
Randall Co 5000 Spring Grove Ave Cincinnati 32 Ohio (Welded)
**REPUBLIC STEEL CORP STEEL AND TUBE DIV 224 E 131st St Cleveland 8 Ohio "Electrunite" "Enduro" "Electrunite" (Stainless)**
Revere Copper and Brass Inc 230 Park Ave N Y 17 N Y
**ROCHESTER PRODUCTS DIV GENERAL MOTORS CORP 1000 Lexington Ave Rochester 3 N Y "GM"**
Rolled Formed Products Co 3765 Oakwood Ave Youngstown Ohio (Stainless)
Ryerson & Son Inc Joseph T 16th & Rockwell Sts Chicago Ill
Sawhill Tubular Products Inc Sharon Pa (Welded, Shenango Div; seamless and welded; Agaloy Div)
Service Steel Div Van Pelt Corp 13700 Sherwood Rd Detroit Mich (Cold drawn)
Standard Tube Co 24400 Plymouth Rd Detroit 39 Mich (Welded and stainless)
Superior Tube Co P O Box 191 Norristown Pa "Weldrawn" (Stainless carbon and alloy)
Tennessee Coal & Iron Div U S Steel Corp P O Box 599 Fairfield Ala
**TIMKEN ROLLER BEARING CO (Steel & Tube Div) 1835 Dueber Ave S W Canton 6 Ohio (Seamless)**
Toledo Steel Tube Co 2115 Smead Ave Toledo Ohio (Welded)
Trent Tube Co East Troy Wis "Trentweld" "Contour Trentweld" (Stainless welded and high alloy)
Troy Sunshade Co Troy Ohio
Tube Products Corp 320 N 2nd St Tipp City Ohio "Tippecanoe"
Tube Reducing Corp 520 Main St Wallington N J "Rockrite" (Seamless carbon alloy and stainless)
Uniform Tubes Inc Collegeville Pa (Stainless)
Wallingford Steel Co 80 Valley St Wallingford Conn (Stainless and high temperature)
Wheatland Tube Co 1300 Bankers Securities Bldg Juniper & Walnut Sts Philadelphia 7 Pa
Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio "Yoloy" (Electric welded)

## TUBING, Synthetic Material

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J "Acme Flexrite" (Neoprene for garage exhaust systems)
Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa "Tygon"
Arrowhead Products Div of Federal-Mogul-Bower Bearings Inc 11031 Shoemaker Rd Detroit Mich "Airtron" (Rubber impregnated fiberglass)
Car-Mon Products Inc 1541 Devon St Chicago 26 Ill "Car-Mon Nu-Flex" (Neoprene for garage exhaust systems)
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn "Dur-A-Vac" (Exhaust)
Garlock Inc 402 Main St Palmyra N Y "Chemiseal" (Nylon)
Irvington Varnish & Insulator Div of Minnesota Mining & Mfg Co 6 Argyle Terrace Irvington 11 N J "Irv-O-Volt" "Irv-O-lite" "Temflex" (Plastic)
Kent-Moore Organization Inc 28635 Mound Rd Warren Mich "Mono-Flex" (Neoprene for garage exhaust systems)
Ohio Rubber Co 300 Ben Hur Ave Willoughby Ohio "Orco"
Polymer Corp 2120 Fairmont Ave Reading Pa "Nylaflow" (Nylon)
Resistoflex Corp Woodland Rd Roseland N J (Flexible)
Roberts Toledo Rubber Co 4143 Monroe St Toledo 13 Ohio
Rodic Rubber Corp Garwood N J
Saylor & Son Frank D 13095 Greeley Ave Detroit 3 Mich "Saylortube" (Woven fiberglas)
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Snyder & Son Inc M L 1827 E York St Philadelphia 25 Pa "Snyder Standard" (Plastic)
**WEATHERHEAD CO FT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**

## TUBING, Windshield Wiper

Acme-Hamilton Mfg Corp 115 Meade St Trenton N J
Bowling Green Rubber Co 4143 Monroe St Toledo 13 Ohio
Buckeye Rubber Products Inc 637 N Jackson St Lima Ohio "Universal"
Continental Rubber Works 1946 Liberty St Erie Pa "Vitalic"
Crown Products Co 5722 S 77th St Ralston Neb
Dallas Mfg & Sales Co P O Box 7181 Dallas Tex "Guard-A"
Dayton Industrial Products Co Div Dayco Corp 2201 Janice Ave Melrose Park Ill
Durkee-Atwood Co 215 Seventh St N E Minneapolis 13 Minn
Gates Rubber Co 999 S Broadway Denver 17 Colo
Globe Rubber Products Corp 3333 N Lawrence St Philadelphia 40 Pa
Goodrich Tire Co B F 500 S Main St Akron 18 Ohio
Servwell Products Co 6519 Euclid Ave Cleveland 3 Ohio
Trico Products Corp 817 Washington St Buffalo 3 N Y
Victor Instrument Mfg Co 33 W 60th St New York 23 N Y

**TUMBLING BARRELS—See Barrels, Burnishing and Tumbling**

## TUNGSTEN

Fansteel Metallurgical Corp 2200 Sheridan Rd North Chicago Ill
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide"

**TUNGSTEN CARBIDE CUTTING ALLOYS—See Alloys, Cutting**

**TURNING EQUIPMENT—See Lathes**

## TURBOCHARGERS, Engine

**(See also Controls, Turbo charger)**

**GARRETT CORP AIRESEARCH INDUSTRIAL DIV 9225 S Aviation Blvd Los Angeles 45 Calif "AiResearch" (Diesel)**
**SCHWITZER CORP 1125 Massachusetts Ave Indianapolis 7 Ind (Exhaust driven)**
Thompson Products Valve Div Thompson Ramo Wooldridge Inc 455 E 185th St Cleveland 10 Ohio (Diesel)

## TURNTABLES, Automobile

Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Globe Hoist Co E Mermaid Lane & Queen St Philadelphia 18 Pa

## TURNTABLES, Industrial

American Monorail Co 1111 E 200th St Cleveland 17 Ohio (Monorail)
Anchor Steel & Conveyor Co 6906 Kingsley Ave Dearborn Mich
Atlas Car & Mfg Co 1130 Ivanhoe Rd Cleveland Ohio (Manual and motorized)
Logan Co Cabel St Louisville 6 Ky
Mathews Conveyer Co 102 Tenth St Ellwood City Pa
Revolvator Co 2026 86th St North Bergen N J

## TWINE, Tufting

American Forest Products Co Box 911 Norristown Pa

**UNDERBODY COATINGS — See Insulation, Heat and Sound (Liquid)**

## UNDERCOATS, Oil-Base

**(For nitro-cellulose and pyroxylin finishes)**

Arco 7301 Bessemer Ave Cleveland 27 Ohio
Forbes Finishes Div Pittsburgh Plate Glass Co 3800 W 143rd St Cleveland 11 Ohio
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Indiana Indestructible Paint Co 1245 Belmont Ave Chicago Ill "Stippaleen"
Martin-Senour Co 2520 Quarry St Chicago 8 Ill
Rinshed-Mason Co 5935 Milford St Detroit 10 Mich "R-M"
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "STC"

## UNDERCOATS, Pyroxylin Base

**(For nitro-cellulose and pyroxylin finishes)**

Acme Quality Paints Inc 8250 St Arbin Ave Detroit 11 Mich "Proxlin"
Arco Co 7301 Bessemer Ave Cleveland 27 Ohio "Arcozon"
Automotive Finishes Inc 8747 Brandt St Dearborn Mich "Puttikote" "Rusterize"
Ditzler Color Div Pittsburgh Plate Glass Co 800 W Chicago Ave Detroit 4 Mich "Ditz-Lac"
du Pont de Nemours & Co E I Finishes Div Refinish Sales Wilmington 98 Del "Preparakote"
Glidden Co 900 Union Commerce Bldg Cleveland 14 Ohio
Rinshed-Mason Co 5935 Milford St Detroit 10 Mich "R-M"
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio "Opex"
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "Standlac"

## UNDERCOATS, Synthetic Resin Base

Acme Quality Paints Inc 8250 St Aubin Ave Detroit 11 Mich "Fleet-X"
American Lacquer Solvents Co Perkiomen Junction Phoenixville Pa "Quix"
American Paint Co 902 Larrabee St Chicago 10 Ill "Dalax" (For commercial vehicles)
Arco Co 7381 Bessemer Ave Cleveland 27 Ohio "Synite"
Automotive Finishes Inc 8747 Brandt St Dearborn Mich "Fleet-Lux"
Ditzler Color Div Pittsburgh Plate Glass Co 8000 W Chicago Blvd Detroit 4 Mich "Ditzco"
Forbes Finishes Div Pittsburgh Plate Glass Co 3800 W 143rd St Cleveland 11 Ohio "Synco" "Raybake"
Martin-Senour Co 2500 Senour Ave Chicago 8 Ill
Rinshed-Mason Co 5135 Milford St Detroit 10 Mich "R-M"
Sherwin-Williams Co 101 Prospect Ave N W Cleveland 1 Ohio "Kem"
Standard-Toch Chemicals Inc 2600 Richmond Terrace Staten Island 3 N Y "Stantox"
Zac-Lac Paint & Lacquer Corp 350 Simpson St NW Atlanta 13 Ga

**UNLOADERS, AUTOMATIC (FOR PRESSES, DIE CASTING MACHINES, ETC.) — See Loaders and Unloaders, Automatic**

**UNIONS, TUBING—See Fittings, Tube**

**UNITS, TOOL CONTROL—See Systems, Machine Tool Control**

## UNITS, Threading (Transfer Machine)

Sheffield Corp 721 Springfield St Dayton 1 Ohio

**UNIVERSAL JOINT PARTS—See Discs, Universal Joint; also Parts, Universal Joint**

**UNIVERSAL JOINTS — See Joints, Universal**

**UPHOLSTERY MATERIALS AND SUPPLIES**
**See following heads:**
**Bindings, Upholstery**
**Fabric, Coated Cloth (For Seat Covers, Tops and Upholstery, etc.)**
**Fabric, Plastic (Upholstery and Seat Cover)**
**Fabrics, Upholstery (Woven Cloth)**
**Fasteners, Upholstery and Seat Cover**
**Felt, Upholstery**
**Moss, Upholstery**
**Webbing, Jute and Cotton**

**UPSETTING MACHINES — See Machines, Forging**

**VACUUM CLEANERS — See Cleaners, Vacuum (Industrial)**

**VACUUM FURNACES — See Furnaces, Vacuum**

**VACUUM METALLIZING MACHINES — See Machines, Vacuum Metallizing**

**VACUUM PUMPS—See Pumps, Vacuum**

**VACUUM TANKS—See Tanks, Air and Vacuum (Brake)**

**VACUUM TESTING MACHINES—See Machines, Pressure and Vacuum Testing**

**VALVE CORES, Tire—See Cores, Valve (Tire)**

**VALVE DUST CAPS—See Caps, Tire Valve**

**VALVE FITTINGS, ENGINE—See Guides, Valve (Engine); Retainers, Valve Spring; Rotators, Valve; Screws, Valve Tappet Adjusting; Seats, Valve; Shafts, Valve Rocker Arm; Springs, Small (Flat or Coil); also Tappets, Valve**

## VALVES, Air Brake

Bendix-Westinghouse Automotive Air Brake Co 901 Cleveland Rd Elyria Ohio (Relay emergency)
Berg Mfg & Sales Co 1712 S Michigan Blvd Chicago 16 Ill "Safe-Air" (Breakaway)
**MIDLAND-ROSS CORP OWOSSO DIV 490 S Chestnut St Owosso Mich**
Power Brake Equipment Co 1632 S E 11th St Portland 14 Ore "Williams"
Power Brake Parts Mfg Co 3441 S Racine Ave Chicago 8 Ill "PB"
Sealco Air Brakes Inc 13530 Nelson Ave City of Industry Calif (Breakaway)
Sweetland Corp 940 N Fair Oaks Ave Pasadena Calif (For trucks trailers and buses)
Talco Engrg Co P O Box 847 Falcon Field Mesa Ariz (Breakaway)
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**

## VALVES, Air Tank Drain (Automatic)

**(See also Cocks, Pet (Drain, Gasoline, Air, etc.)**

Baker Mfg Co 5660 W River Rd Maine City Mich "Expello"
Champion Pneumatic Machinery Co 825 N Pleasant St Princeton Ill
Master Equipment Corp P O Box 55 Dayton 1 Ohio "Drain Master"
National Pneumatic Co 125 Amory St Boston 19 Mass "NP"
Quincy Compressor Co 217 Maine St Quincy Ill "Dri-R-Air"
**WAGNER ELECTRIC CORP 6400 Plymouth Ave St Louis 33 Mo**
**WEATHERHEAD CO FT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**
Wilkerson Corp 1601 W Girard Ave Englewood Colo "Saf-T-Drain"

## VALVES, Air Tank Drain (Non-Automatic)

Power Brake Parts Mfg Co 3441 S Racine Ave Chicago 8 Ill "PB" (Truck trailer and bus)
**WEATHERHEAD CO FT WAYNE DIV 128 W Washington Blvd Ft Wayne Ind**

## VALVES, Check

Fluid Controls Inc Box 186 Mentor Ohio
**KOHLER CO Kohler Wis**
Waterman Hydraulics Corp 725 Custer St Evanston Ill

## VALVES, Control (Heating, Ventilating and Air Conditioning) (Auto)

Dole Valve Co 6201 Oakton St Morton Grove Ill

## VALVES, Electromagnetic (Auto)

**(For fuel shutoff, oil shutoff and hydraulic control)**

General Controls Co 801 Allen Ave Glendale 1 Calif "Hi-g"

## VALVES, Engine Poppet

**(For valves in the rough—See Forgings)**

Aluminum Industries Inc 3670 Werk Rd Cincinnati 11 Ohio "Permite"
Andrew Parts Mfg Co 32-70 31st St Long Island City 6 N Y
**EATON MFG CO Saginaw Div 1000 Rust St Saginaw Mich**
**EATON MFG CO VALVE DIV 463 N 20th St Battle Creek Mich "Enton Econoseat"**
Elgin Machine Works Inc 412 N State St Elgin Ill
Jambor Tool & Stamping Co 3057 N 30th St Milwaukee 10 Wis
Jones Co L E 1200 34th St Menominee Mich
**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**
Parts Processing Corp 1499 E Michigan Ave Battle Creek Mich "Par-Plus" (For trucks and buses)
Remco Products Corp State & Hay Sts York Pa
Rich Mfg Corp 96 N Division St Battle Creek Mich "RMC"
Saco - Lowell Shops Box Automotive Div Saco - Lowell 111 Saco Me
Sealed Power Corp 2001 Sanford St Muskegon Heights Mich
**THOMPSON PRODUCTS VALVE DIV THOMPSON-RAMO-WOOLDRIDGE INC 1455 E 185th St Cleveland 10 Ohio**
Toledo Steel Products Div of Thompson-Ramo - Wooldridge Inc 6402 Cedar Rd Cleveland 3 Ohio
Wheel Parts & Mfg Co 45 Nassau St N Y 5 N Y "National"
White Machine Works 1401 Bellevue Ave Eau Claire, Wis "Superior"

## VALVES, Flow Control (Temperature and Pressure)

Vickers Inc Machinery Hydraulic Div Adm & Engrg Center Detroit 32 Mich

## VALVES, Hydraulic

Barnes Corp John S 301 S Water St Rockford Ill
Beckett-Harcum Co 985 W Locust St Wilmington Ohio "Hi-Cycle"
Bendix Lakeshore Div Bendix Corp Lake Shore Drive St Joseph Mich
Benton Harbor Engrg Works Inc 622 Langley Ave Benton Harbor Mich "BHEW"
Blackhawk Automotive Div Blackhawk Mfg Co 5325 W Rogers St Milwaukee 46 Wis
Commercial Shearing & Stamping Co 1775 Logan Ave Youngstown Ohio
Denison Engrg Div American Brake Shoe Co 1160 Dublin Rd Columbus 16 Ohio
Double A Products Co Duncan St Manchester Mich
Dynex Inc 777 Dynex Drive Pewaukee Wis
Eaton Mfg Co Saginaw Div 1000 Rust St Saginaw Mich
Fluid Controls Inc Box 186 Mentor Ohio
Hanna Engrg Works 1765 Elston Ave Chicago 22 Ill "Flo-Set" "Hanna-Flo"
Hein-Werner Corp 1200 National Ave Waukesha Wis
Humphrey Products Div of General Gas Light Co P O Box 2008 Kalamazoo Mich (Pneumatic-hydraulic)
Hunt Valve Co 1913 E Pershing St Salem Ohio
Hydraulic Power Div Hydraulic Press Mfg Co 1000 Marion Rd Mount Gilead Ohio "H-P-M"
Logansport Machine Co Center Ave Logansport Ind
Muncie Parts Mfg Co 342 N Pershing Drive Muncie Ind
**NEW YORK AIR BRAKE CO HYDRECO DIV Kalamazoo Mich "Hydreco"**
Nopak Div Galland-Henning Mfg Co 2753 S 31st St Milwaukee 46 Wis
Oilgear Co 1560 W Pierce St Milwaukee 4 Wis
Parker Hydraulics Div Parker - Hannifin Corp 17325 Euclid Ave Cleveland 12 Ohio
**RIVETT LATHE & GRINDER INC 20 Riverview Rd Brighton Boston 35 Mass**
Ross Operating Valve Co 120 Golden Gate Ave Detroit 3 Mich (Low pressure)
S-P Mfg Corp 30201 Aurora Rd Solon Ohio
Sundstrand Hydraulics Div of Sundstrand Corp 2210 Harrison Ave Rockford Ill
Victor Equipment Co 844 Folsom St San Francisco 7 Calif
Vickers Inc Machinery Hydraulics Div Administrative & Engrg Center Detroit 32 Mich (Electro-hydraulic)
**VICKERS INC MOBILE HYDRAULICS DIV ADMINISTRATIVE & ENGRG CENTER Detroit 32 Mich**
Webster Electric Co 1900 Clark St Racine Wis

## VALVES, Needle

Commonwealth Brass Corp 5835 Commonwealth Ave Detroit 8 Mich
Dole Valve Co 6201 Oakton St Morton Grove Ill
Everhot Products Co 2000 W Carroll Ave Chicago 12 Ill
Fluid Controls Inc Box 186 Mentor Ohio
Hoke Inc 1 Tenakill Pk Cresskill N J
**IMPERIAL - EASTMAN CORP 6300 W Howard St Chicago 48 Ill**
**KOHLER CO Kohler Wis**
Tolman Mfg Co 19-21 W Third St South Boston Boston 27 Mass

## VALVES, Safety or Emergency

**(For safeguarding contents of tanks)**

Betts Machine Co 1800 Pennsylvania Ave W Warren Pa (Air)
McDonald Mfg Co A Y 12th & Pine Sts Dubuque Iowa
Manning Maxwell & Moore Inc Gage Instrument & Valve Div Stratford Conn "Consolidated"
Morrison Bros Co 2401 Elm St Dubuque Iowa
Norgren Co C A 3400 S Elati St Englewood Calif
Philadelphia Valve Co Aramingo Ave & Ontario St Philadelphia 34 Pa

## VALVES, Tire

Acme Air Appliance Co 205 Newman St Hackensack N J
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Dill Mfg Co 700 E 82nd St Cleveland 3 Ohio
Druge Bros Mfg Co 888 92nd Ave Oakland 3 Calif (Sole distributors Tru-Flate Inc 888 92nd Ave Oakland 3 Calif)
Goodrich Tire Co B F 500 S Main St Akron Ohio
Goodyear Tire & Rubber Co 1144 E Market St Akron 16 Ohio
Kex Products Co 4400 St Vincent Ave St Louis 19 Mo
Patch Rubber Co 884 W Waterloo Rd Akron Ohio "Chem"
**SCHRADER'S SON DIV OF SCOVILL MFG CO A 470 Vanderbilt Ave Brooklyn 38 N Y**

## VALVES, Two-Way, Three-Way and Four-Way

**(Fuel reserve valve or cocks)**

Adel Precision Products Div of General Metals Corp 1444 Washington Ave Huntington 4 W Va (Hydraulic four-way)
Allenair Corp 255 E Second St Mineola N Y (Air)
Anderson Brass Co 100 S Campbell Ave Detroit 9 Mich "Kantleak"
Anker-Holth Div of Wellman Engrg Co 2723 Connors St Port Huron Mich
Automatic Switch Co Hanover Rd Florham Park N J "Asco"
Barnes Corp John S 301 S Water St Rockford Ill (Hydraulic)
**BELLOWS-VALVAIR DIV OF INTERNATIONAL BASIC ECONOMY CORP 222 W Market St Akron 9 Ohio "Valvair"**
Buckeye Iron & Brass Works 324 E Third St Dayton 1 Ohio
Dukes Co 3999 N 25th Ave Schiller Park Ill (Hydraulic for oil)
Gardner-Denver Co S Front St Quincy Ill (Air)
Hanna Engrg Works 1765 Elston Ave Chicago 22 Ill "Unitite" (Hand operated "Mastair" air "Flo-Line" solenoid and master)
Hannifin Co 543 S Wolf Rd Des Planes Ill "Hannifin" "Lap Seal" "P-M" "Effortless" "Directaire" (Air)
Humphrey Products Div of General Gas Light Co PO Box 2008 Kalamazoo Mich (Pneumatic-hydraulic for air oil water etc)
Hunt Valve Co 1913 E Pershing St Salem Ohio "Slimline" (Air "Trimline" air oil and water "PDG" four-way air)
**IMPERIAL - EASTMAN CORP 6300 W Howard St Chicago 48 Ill**
**KOHLER CO Kohler Wis**
Logansport Machine Co 860 Center St Logansport Ind
Mechanical Air Controls Inc 10030 Capital Ave Detroit 37 Mich "MAC" (Air)
Modernair Corp 400 Preda St San Leandro Calif (Air)
Morrison Bros Co 2401 Elm St Dubuque Iowa
New Products Corp 3636 Oakton St Skokie Ill
Nopak Div-Galland-Henning Mfg Co 2753 S 31st St Milwaukee 46 Wis "Nopak" "Nopak-Matic"
Oilgear Co 1560 W Pierce St Milwaukee 4 Wis "Servocontrol"
**ROSS OPERATING VALVE CO 120 E Golden Gate Ave Detroit 3 Mich (Solenoid)**
**S-P MFG CORP 30201 Aurora Rd Solon Ohio (Air)**
Schrader's Son A Div of Scoville Mfg Co 470 Vanderbilt Ave Brooklyn 38 N Y
**SKINNER ELECTRIC VALVE DIV SKINNER CHUCK CO 105 Edgewood Ave New Britain Conn (Solenoid)**
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Waterman Hydraulics Corp 725 Custer St Evanston Ill (Solenoid)
**WEATHERHEAD CO FT WAYNE DIV 128 Washington Blvd Ft Wayne Ind**

VANADIUM ALLOY—See Alloys, Vanadium

## VANADIUM METAL

**VANADIUM CORP OF AMERICA 420 Lexington Ave New York 17 N Y "Vancorom"**

VANADIUM STEEL—See Steel, Vanadium

VAPORIZERS, LP-Gas—See Regulators, Adaptors and Vaporizers, LP-Gas

VARIABLE SPEED DRIVES (MACHINE TOOL)—See Drives, Variable Speed (Machine Tool)

VARNISH DRYERS—See Dryers, Japanning and Varnish

## VARNISHES, Laminating (For Producing of Laminated Plastics)

**DOW CORNING CORP Midland Mich (Silicone)**

VENTILATING FANS—See Fans, Defrosting and Ventilating, Electric (Auto)

## VENTILATORS, Bus and Truck

Evans Products Co 13101 Eckles Rd Plymouth Mich (Bus and truck cab)
Service Products Corp 201 S Rural St Indianapolis 1 Ind

## VENTILATORS, Crankcase

(See also Caps, Crankcase Breather)

**AC SPARK PLUG THE ELECTRONICS DIV OF GENERAL MOTORS 1300 N Dort Highway Flint 2 Mich**

Donaldson Co 666 Pelham Blvd St Paul 14 Minn
Fram Corp Pawtucket Ave Providence 16 R I
Monarch Tool & Machinery Co 3235 S Racine Ave Chicago 8 Ill
Oldex Corp 418 E Second St Tulsa Okla

VERNER GAGES—See Gages, Vernier, Height

VIBRATION ABSORPTION ISOLATORS (FOR MACHINERY)—See Isolators, Vibration Absorption (For Machinery)

VIBRATION DAMPERS—See Dampers, Vibration (Engine)

VIBRATION MEASURING INSTRUMENTS—See Instruments, Vibration Measuring

## VISCOSIMETERS

Fischer & Porter Co 700 Warminster Rd Warminster Pa
Visco-Meter Corp 315 Grote St Buffalo 7 N Y (Auto oil)

## VISES, Drill Press

**L-W CHUCK CO 24 S St Clair St Toledo 4 Ohio**

## VISES, Milling Machine

**L-W CHUCK CO 24 S St Clair St Toledo 4 Ohio**

## VISORS, Windshield

Acme Specialty Mfg Co 2298 Smead Ave Toledo 6 Ohio (Outside plastic)
Davidson Rubber Co Dover N H

**DETROIT GASKET & MFG CO 12640 Burt Rd Detroit 23 Mich**

Fulton Co 1912 S 82nd Ave Milwaukee 14 Wis (Inside)
Henry Mfg Co 1310 Marquette St Minneapolis Minn "Hemco" (Inside transparent)
Master Automotive Chemicals Inc 37 Preston Ct Brooklyn 34 N Y "Sheeld" (Inside transparent)
Peckat Mfg Co Charles 110 Madison St Maywood Ill "Airform" & "Peckat" (Outside)
Peerless Novelty Co First & Fulton Sts Grand Haven Mich
Rockford Engineered Products Co 2334 23rd Ave Rockford Ill "Repco" (Combination map and sun visor)
Visionade Mfg Co 200 Kosciusko St Brooklyn 16 N Y "Safe-T-Zone" "Sunfilter" "Visionade" (Inside transparent)
Vision-Visor Corp 831 S Wabash Ave Chicago 5 Ill (Transparent outside)
Wilson Co 959 Commonwealth Ave Boston Mass "Wilco"
Woodall Industries Inc 7565 E McNichols Rd Detroit 34 Mich

VOLTAGE REGULATORS—See Regulators, Generator Current & Voltage (Auto)

VOLTMETERS—See Ammeters, Instrument Board; also Ammeters and Voltmeters (Including Switchboard)

## WADDING and BATTING, Cotton

American Auto-Felt Corp 630 Myrtle St N W Grand Rapids 2 Mich
Burkart Mfg Co F 4900 N Second St St Louis 7 Mo "Burkhart" "Burkaire" (Plastic bonded cotton batts)

## WARMERS, Battery (Winter)

Visionator Inc 120 N Peoria St Chicago 7 Ill

WARNING LIGHTS—See Lamps, Warning

WASHER CUTTERS—See Cutters, Washer and Gasket

WASHER PUNCHES—See Punches, Arch or Washer

## WASHERS, Aluminum

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich
Fitzgerald Mfg Co 691 Main St Torrington Conn
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 36 Pa
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
Weil-Ransom Co 816 Fulton St Chicago Ill
Wisconsin Gasket & Mfg Co 8724 N Granville Rd Granville Wis
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

## WASHERS, Brass, Bronze and Copper

American Brass Co Fabricated Metal Goods Div 26 Crane St Waterbury 20 Conn
Barcy-Nicholson Co 8100 Joy Rd Detroit 4 Mich (Brass and bronze)
Cannon Bronze Corp Keithsburg Ill (Crankshaft (Bronze)
Continental Screw Co 451 Mt Pleasant St New Bedford Mass "Holtite"
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich

**FEDERAL-MOGUL DIV FEDERAL-MOGUL-BOWER BEARINGS INC 11031 Shoemaker Ave Detroit 13 Mich "Federaloy" (Bronze)**

Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio
Garrett Co George K Torresdale Ave at Tolbut St Philadelphia 36 Pa
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Pheoli Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill
Presswork Inc Lead Alloy Products Div 9100 Roselawn Ave Detroit 4 Mich
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sterling Bolt Co 363 W Erie St Chicago 10 Ill (Brass)
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Victor Mfg & Gasket Co 5750 W Roosevelt Rd Chicago 50 Ill
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

WASHERS, CORK—See Gaskets, Cork

## WASHERS, Felt

(See also Felt, Sheet)

American Felt Co 25 Glenville Rd Glenville Conn "Afco"

**AUBURN MFG CO Pease Ave & Stack St Middletown Conn**

Bacon Felt Co 11 Fifth St Taunton Mass "Paramount"
Booth Felt Co 1726 Tenth Ave Brooklyn 15 N Y
Brawley Felt Co T R 272 20th St Brooklyn 15 N Y
Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"
Continental Felt Co 22 W 15th St New York 11 N Y "Vel-Fel"
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill "Fel-Pro"
Felters Co 210 South St Boston 11 Mass
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Krug Co Barnum Court North St Danbury Conn
McCord Corp Riopelle at E Grand Blvd Detroit 11 Mich
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Sutherland Leather & Belt Co 743 Beaubien St Detroit 26 Mich
Victor Mfg & Casket Co 5750 W Roosevelt Rd Chicago 50 Ill

**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

WASHERS, FIBRE—See Washers, Insulation Composition, Fibre, Mica and Rubber)

## WASHERS, Insulation (Composition, Fibre, Mica and Rubber)

Acme Mfg & Gasket Co 738 N 41st St Philadelphia 4 Pa

**AUBURN MFG CO Pease Ave & Stack St Middletown Conn (Fibre)**

Brandywine Fibre Products Co 15th & Poplar Sts Wilmington Del (Fibre)
Champ-Items Inc 6191 Maple Ave St Louis Mo (Fibre glass nylon Teflon etc)
Cooper Tire & Rubber Co Lima & Western Aves Findlay Ohio (Rubber)
Excelsior Leather Washer Mfg Co 720 Chestnut St Rockford Ill "X-L"
Franklin Fibre-Lamitex Corp 18th St E of Market St Wilmington Del (Plastic and hard fibre)
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kuehn Co N L 3747 N Booth St Milwaukee 12 Wis
Latex Fiber Industries Inc Beaver Falls N Y "Lexide" (Composition fibre and rubber)
Martindale Electric Co 1340 Hird Ave Cleveland 7 Ohio (Fibre washer assortment)
Mechanical Rubber Products Co Warwick N Y
National Vulcanized Fibre Co Maryland Ave & Beech St Wilmington 99 Del (Fibre)
Preferred Electric & Wire Co Bush Terminal Bld No 8 Brooklyn 32 N Y (Fibre)
Raybestos-Manhattan Inc Equipment Sales Div P O Box 1021 Bridgeport Conn "R/M"
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Taylor Fibre Co Norristown 49 Pa (Fibre)
Wilmington Fibre Specialty Co New Castle Del
Wisconsin Gasket Mfg Co 8724 N Granville Rd Granville Wis

## WASHERS, Iron and Steel

Akron-Selle Co High & Chestnut Sts Akron 11 Ohio
Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa
Barcy-Nicholson Co 8100 Joy Rd Detroit 4 Mich
Bethlehem Steel Co Bethlehem Pa
Continental Screw Co 451 Mt Pleasant St New Bedford Mass
Detroit Stamping Co 350 Midland Ave Detroit 3 Mich
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio
Harper Co H M 8200 Lehigh Ave Morton Grove Ill (Steel)
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt" (Steel)
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Hubbard Spring Mfg Co M D 646 Central Ave Pontiac Mich
Keystone Gasket Mfg Co 833 N Fourth St Philadelphia 23 Pa
Kongislow Mfg Co Otto 3600 Perkins Ave Cleveland 14 Ohio
Reed & Prince Mfg Co 1 Duncan Ave Worcester 1 Mass
Staver Co 41 N Saxon Ave Bay Shore L I N Y
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis (Steel)

WASHERS, LEAD and LEAD ALLOY—See Gaskets, Lead and Lead Alloy

WASHERS, LEATHER—See Gaskets, Leather

## WASHERS, Lock

(See also Nuts, Lock & Self-Locking; see also Sems)

Acme Mfg & Gasket Co 738 N 41st St Philadelphia Pa

Allmetal Screw Products Co 821 Stewart Ave Garden City N Y (Stainless steel)
American Nut & Bolt Fastener Co., 2029 Doerr St Pittsburgh 33 Pa "Antilink" "Kantlink" (Carbon steel stainless steel bronze and aluminum)
Anti-Corrosive Metal Products Co Castleton-on-Hudson N Y (Stainless steel)
Beall Tool Div Unit Rail Anchor Corp East Alton Ill "Kantlink"
Butcher & Hart Mfg Co 4601 Cortland Ave Altoona Pa "B & H"
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn (Bronze)
Dorman Products Inc 1004 Sycamore St Cincinnati 2 Ohio
**EATON MFG CO RELIANCE DIV 25 Charles Ave SE Massillion Ohio "Eaton-Reliance Springtites" (Pre-assembled lock washer and screw; "Reliance Tenz Nut" pre-assembled nut and lock washer); "Fastite" pre-assembled nut and spring washer "Eaton-Reliance Fastite" pre-assembled nut and spring washer**
**GARRETT CO GEORGE K Torresdale Ave at Tolbut St Philadelphia 36 Pa "Diamond G"**
General Pressed Metal Corp 926 Wolf St Syracuse 8 N Y
Harper Co H M 8200 Lehigh Ave Morton Grove Ill
Hercules Fastener Corp 2722 N Clybourn Ave Chicago 14 Ill "Sturdi-Bolt"
Hill Nut Co 2620 Flournoy St Chicago 12 Ill
Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio "Lamson"
Link-Belt Co Dept 60-A 1 P G Prudential Plaza Chicago 1 Ill (For locking bearings on shaft)
Loock & Co R J 343 N Gay St Baltimore Md "Lightnin"
**NATIONAL LOCK CO 1902 Seventh St Rockford Ill**
National Lock Washer Co 40 Hermon St Newark 5 N J "Kantlink"
**NATIONAL SCREW & MFG CO 2440 E 75th St Cleveland 4 Ohio "Tuff-Tite" (Pre-assembled lock washer and screw)**
Palnut Co 60-A Glen Rd Mountainside N J
Perfect Parts Inc 43 W 23rd St N Y 10 N Y
Philadelphia Steel & Wire Corp (Lock Washer Div) Penn St & Belfield Ave Philadelphia 44 Pa "Never-Slip"
Progressive Mfg Co 52 Norwood St Torrington Conn "Promco"
Rawlplug Co 200 Petersville Rd New Rochelle N Y "Lok-Crowner" (Combination lock washer and crowner)
SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa
**SHAKEPROOF Div of Illinois Tool Works St Charles Rd Elgin Ill "Shakeproof" "Keps" (Pre-assembled nut and lock washer)**
Standard Locknut & Lockwasher Co 2250 Valley Ave Indianapolis 18 Ind (For ball and roller bearings)
Thompson-Bremer & Co 228 N La Salle St Chicago 1 Ill "Everlock"
United Screw & Bolt Corp 3590 W 58th St Cleveland O
Whittet-Higgins Co P O Box 1613 Providence 1 R I (For ball and roller bearings)
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

**WASHERS, MICA—See Mica Sheets, Tubes, Washers and cores; also Washers, Insulation (Composition, Fibre, Mica and Rubber)**

## WASHERS and BURRS, Riveting

American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 12 Pa
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio (Burrs)
Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio
Stimpson Co Edwin 70 Franklin Ave Brooklyn N Y
Superior Wrought Washer Co 1951 W 90th St Cleveland 2 Ohio
United Screw & Bolt Corp 3590 W 58th St Cleveland O
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

**WASHERS, PAPER—See Gaskets, Paper**
**WASHERS, PUMP—See Gaskets, Leather**
**WASHERS, RUBBER—See Washers, Insulation (Composition, Fibre, Mica and Rubber)**
**WASHERS, SOLDER—See Gaskets, Lead and Lead Alloy**

## WASHERS, Star

Hill Nut Co 2620 W Flournoy St Chicago 12 Ill
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio

**WASHERS, STEEL—See Washers, Iron and Steel**

## WASHERS, Steel Spring

American Nut & Bolt Fastener Co 2029 Doerr St Pittsburgh 33 Pa
Barnes Wallace Div of Associated Spring Corp 18 Main St Bristol Conn
Cook Plant of Barnes-Gibson-Raymond Div of Associated Spring Corp 410 E Stadium Blvd Ann Arbor Mich
Freeway Washer & Stamping Co P O Box 1756 Cleveland 5 Ohio
Keystone Gasket Mfg Co 833 N Fourth St Philadlephia 23 Pa
Master Products Co 6400 Park Ave S E Cleveland 5 Ohio "M-P"
**SHAKEPROOF Div of Illinois Tool Works St Charles Rd Elgin Ill**
United Screw & Bolt Corp 3590 W 58th St Cleveland Ohio
Wrought Washer Mfg Co 2107 S Bay St Milwaukee 7 Wis

## WASHERS, Windshield

(For spraying windshields with water)

Anderson Co 1075 Grant St Gary 40 Ind (Foot operated)
Delco Appliance Div General Motors Corp 391 Lyell Ave Rochester 1 N Y (Electric)
Santay Corp 351 N Crawford Ave Chicago 24 Ill "Jet King" & "Kwik Kleens" (Foot controlled)
Trico Products Corp 817 Washington St Buffalo 3 N Y

**WASHING MACHINES, METAL PARTS — See Machines, Washing (Metal Parts)**
**WATER PUMP PARTS — See Belts, Auto (Fan, Water Pump, Generator, etc.) Couplings, Magneto, Generator and Water Pump; Parts, Water Pump; also Shafts, Water Pump**
**WEAR RESISTING COMPOUNDS (Metal)—See Compounds, Wear Resisting (Metal)**
**WEARING PLATES—See Plates, Wearing**
**WEATHER STRIPS—See Strips Weather (Windshield, Window, etc.)**

## WEBBING, Jute and Cotton

American Cord & Webbing Co 505 Fifth Ave N Y N Y
Arbeka Webbing Co 1155 Roosevelt Ave Pawtucket R I (Cotton)
Buffalo Weaving & Belting Co 260 Chandler St Buffalo 7 N Y
Burkart Mfg Co F Div of Textron Inc 4900 N Second St St Louis 7 Mo (Jute)
Georgia Webbing & Tape Co Talbottom Ga (Cotton)
Gilmer Co L H Cottman & Keystone Sts (Tacony) Philadelphia Pa (Cotton)
Hope Webbing Co P O Box 1495 Providence 1 R I
Russell Mfg Co E Main St Middletown Conn (Cotton and nylon)
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Southern Weaving Co 4 Evans St Greenville S C
Stevens Co A T 118 E 28th St New York 16 N Y
Sturges Mfg Co 2030 Sunset Ave Utica N Y (Cotton)
Uniform Hood Lace Co 633 E St Clair St Indianapolis Ind "Black Diamond" (Cotton)

## WELDERS and EQUIPMENT, Electric (Arc)

Agnew Machine Co 121 S Main St Milford Mich (Automatic)
**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Airco" "Heliweld"**
Berkeley-Davis Inc 1021 Bahls St Danville Ill
Birdsell Mfg Co 750 San Antonio Rd Palo Alto Calif
Forney Mfg 1820 Laporte Ave Ft Collins Colo
Harnischfeger Corp 4400 W National Ave Milwaukee 14 Wis "P & H"
Hobart Bros Co Canal Locks Square Troy 1 Ohio
Hughes Aircraft Co Vacuum Tube Products Div 2020 Short St Oceanside Calif
**LINCOLN ELECTRIC CO 22801 St Clair Ave Cleveland 17 Ohio ("Shield-Arc" "Idealarc" "Lincewelder" "Weldanpower" manual; "Lincolnweld" "Innershield" automatic; "Currentrol" controls)**
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn
Mercury Electric Co 2311 Tauromee Ave Kansas City Kans (Also combination bonder and arc welder)
**METAL & THERMIT CORP Rahway N J "M & T"**
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill (Also stabilizers)
Miller Electric Mfg Co 718 S Bounds St Appleton Wis
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "Sureweld" "NCG Dual Shield"
Precision Welder Mfg Co 2218 W Lake St Chicago 12 Ill "Shop-King" "American Farm"
Rexarc Inc West Alexandria Ohio
Smith Corp A O 3533 N 27th St Milwaukee 1 Wis
Swift Ohio Corp 800 S Leighton St Kenton Ohio
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Trindl Products Ltd 1807 S Clark St Chicago 16 Ill (Welding)
US Electric Welder Corp 1258 Dorr St Toledo 7 Ohio
Vickers Inc Electric Products Div 1815 Locust St St Louis 3 Mo "Controlac"
Welduction Corp 19400 W Eight Mile Rd Southfield Mich
Weltronic Co 19500 W 8 Mile Rd Southfield Mich (Controls)
Westinghouse Electric Corp Welding Dept Buffalo N Y

## WELDERS and EQUIPMENT, Electric (Butt)

Acme Electric Welder Co 2618 Fruitland Ave Los Angeles 58 Cal
Agnew Electric Co 121 S Main St Milford Mich
American Electric Fusion Corp 2610 Diversey Ave Chicago 47 Ill "AEF"
**BUDD CO ELECTRONIC CONTROLS SECTION 2450 Hunting Park Ave Philadelphia 32 Pa "Monautronic" (Controls)**
Do All Co 254 N Laurel Ave Des Plaines Ill
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Grob Inc Grafton Wis (For saw blades)
Micro Products Co 20 N Wacker Drive Chicago 6 Ill "Micro-Weld"
National Electric Welding Machines Co 1846 N Trumbull St Bay City Mich
Swift Ohio Corp 800 S Leighton St Kenton Ohio
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Thomson Electric Welder Co 161 Pleasant St Lynn Mass
United Welders Inc 1019 Scheurmann St Essexville Mich
Weltronic Co 19500 W 8 Mile Rd Southfield Mich (Controls)

## WELDERS and EQUIPMENT, Electric (Flash)

Agnew Machine Co 121 S Main St Milford Mich
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
National Electric Welding Machines Co 1846 N Trumbull St Bay City Mich
Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio
Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich
Resistance Welder Corp Bay City Mich
Sciaky Bros Inc 4915 W 67th St Chicago 38 Ill (Flash-butt resistance)
Swift Ohio Corp 800 S Leighton St Kenton Ohio
Taylor-Winfield Corp 1052 Mahoning Ave S W Warren Ohio
Thomson Electric Welder Co 161 Pleasant St Lynn Mass
United Welders Inc 1019 Scheurmann St Essexville Mich

## WELDERS and EQUIPMENT, Electric (Seam)

Acme Electric Welder Co 2616 Fruitland Ave Los Angeles 58 Calif
Agnew Machine Co 121 S Main St Milford Mich
American Electric Fusion Corp 2610 Diversey Ave Chicago 47 Ill "AEF"
Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis "Ampco-Weld" (Wheels)
Berkeley-Davis Inc 1021 Bahls St Danville Ill
**BUDD CO ELECTRONIC CONTROLS SECTION 2450 Hunting Park Ave Philadelphia 32 Pa "Monautronic" (Controls)**
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio

## WELDERS and EQUIPMENT, Electric (Seam)—continued

Hughes Aircraft Co Vacuum Tube Products Co 2020 Short St Oceanside Calif
Mallory & Co P R 76 S Gray St Indianapolis 6 Ind (Wheels)
Martin Electric Div Thompson Industries Inc 3040 E Outer Drive Detroit 34 Mich
Morton Mfg Co Broadway & Hoyt St Muskegon Heights Mich
National Electric Welding Machines Co 1846 N Trumbull St Bay City Mich
New Rochelle Thermatool Corp 320 Main St New Rochelle N Y "Thermatool"
Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio
Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich
Resistance Welder Corp Bay City Mich
Sciaky Bros Inc 4915 W 67th St Chicago 38 Ill (Resistance)
Swift Ohio Corp 800 S Leighton St Kenton Ohio
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Thomson Electric Welder Co 161 Pleasant St Lynn Mass
United Welders Inc 1019 Scheurmann St Essexville Mich
Weltronic Co 19500 W 8 Mile Rd Southfield Mich (Controls)

## WELDERS, and EQUIPMENT, Electric (Spot)

Acme Electric Welder Co 2618 Fruitland Ave Los Angeles 58 Calif
Agnew Machine Co 121 S Main St Milford Mich
**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York 17 N Y "Aircospot"**
Allen Electric & Equipment Co 2101 N Pitcher St Kalamazoo 13F Mich
American Electric Fusion Corp 2610 Diversey Ave Chicago 47 Ill "AEF"
Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis "Ampco-Weld" (Tips)
Birdsell Mfg Co 750 San Antonio Rd Palo Alto Calif
**BUDD CO ELECTRONIC CONTROLS SECTION 2450 Hunting Park Ave Philadelphia 32 Pa "Monnutronic" (Controls)**
Federal Machine & Welder Co 1745 Overland Ave Warren Ohio
Hughes Aircraft Co Vacuum Tube Products Div 2020 Short St Oceanside Calif
Kirkhof Mfg Corp 2450 Buchanan Ave S W Grand Rapids Mich
Martin Electric Div Thompson Industries Inc 3040 E Outer Drive Detroit 34 Mich
Mercury Electric Co 2311 Tauromee Ave Kansas City Kans
Metal & Thermit Corp Rahway N J (Portable)
Micro Products Co 20 N Wacker Drive Chicago 6 Ill "Micro-Weld"
Mid-States Welder Mfg Co 6025 S Ashland Ave Chicago 36 Ill (Portable)
Miller Electric Mfg Co 718 S Bounds St Appleton Wis (Portable)
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago 11 Ill "Sureweld" (Portable)
National Electric Welding Machines Co 1846 N Trumbull St Bay City Mich
Peer Inc 1000 Cross St Benton Harbor Mich "Peer" and "Pier-Ace"
Precision Welder & Flexopress Corp 3520 Ibsen Ave Cincinnati 9 Ohio
Progressive Welder Sales Co 915 Oakland Ave Pontiac Mich
Resistance Welder Corp Bay City Mich
S-M-S Corp 8605 Livernois Ave Detroit 4 Mich (Tips)
Schott Metal Products Co 2225 Lee Rd Akron 6 Ohio
Sciaky Bros Inc 4915 W 67th St Chicago 38 Ill (Resistance)
Sittler Corp 18 N Ada St Chicago 7 Ill
Swift Ohio Corp 800 S Leighton St Kenton Ohio
Taylor-Winfield Corp 1052 Mahoning Ave N W Warren Ohio
Thomson Electric Welder Co 161 Pleasant St Lynn Mass
United Welders Inc 1019 Scheurmann St Essexville Mich
Weltronic Co 19500 W 8 Mile Rd Southfield Mich (Controls)

## WELDERS and EQUIPMENT, Electric (Stud)

K S M Products Inc Woodland Ave & Yale Rd Merchantville 8 N J
Nelson Stud Welding Div of Gregory Industries Inc Toledo Ave & E 28th St Lorain Ohio "Nelweld"

## WELDERS and EQUIPMENT, Oxy-Acetylene

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St New York N Y "Airco" "Airomatic"**
Burdett Oxygen Co of Cleveland Inc 3300 Lakeside Ave Cleveland 14 Ohio "Burdox"
Dockson Co C H 3839 Wabash Ave Detroit 8 Mich (Regulators)
General Dynamics Corp Liquid Carbonic Div 135 S La Salle St Chicago 3 Ill
Harris Colorific Co 5501 Cass Ave NW Cleveland 2 Ohio (Regulators etc)
Linde Co 270 Park Ave New York 17 N Y "Oxweld" "Purox"
Marquette Mfg Co 307 E Hennepin Ave Minneapolis 14 Minn (Portable acetylene generators)
Modern Engrg Co 3411 Pine Blvd St Louis 3 Mo ("Weldmaster" "Safe-T-Chek" Regulators)
National Cylinder Gas Div of Chemetron Corp 840 N Michigan Ave Chicago Ill "Torchweld"
National Welding Equipment Co 218 Fremont St San Francisco 5 Calif
Rexarc Inc West Alexandria Ohio "Sight Feed" (Acetylene generators)
Smith Welding Equipment Corp 2633 Fourth St S E Minneapolis 14 Minn
Taylor-Winfield Corp 1052 Mahoning Ave NW Warren Ohio
Victor Equipment Co 844 Folsom St San Francisco 7 Calif

**WELDING SUPPLIES — See Blow Pipes, Brazing, Welding and Cutting; Cable, Welding; Compounds, Welding; Dies, Welding; Flux, Brazing, Welding and Soldering; Furnaces, Forging and Welding; Helmets, Sand Blasting and Welding; Hose, Welding; Nuts, Welding; Positioners, Welding; Presses, Welding; Rods, Welding; Torches, Welding, Cutting and Brazing; Welders and Equipment; also Wire, Welding**

**WELTS, UPHOLSTERY — See Bindings, Upholstery**

**WHEEL DRESSERS—See Dressers, Grinding Wheel**

**WHEEL PARTS AND ACCESSORIES — See Controls, Brake (Wheel Spinning); Discs, Wheel; Hubs, Wheel; Rims, Wheel (Truck and Bus); Rings, Wheel Trim; Parts, Front End Suspension**

**WHEEL TESTING EQUIPMENT — See Machines, Balancing (Wheel)**

## WHEELS, Auto, Truck and Bus (Cast Metal)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum spoke type for trucks and buses)
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio (Spoke type)
**ELECTRIC WHEEL CO Div of Firestone Tire & Rubber Co 1120 N 28th St Quincy Ill**
Erie Malleable Iron Co Automotive Wheel Div 609 W 12th St Erie Pa (Spoke)
Gunite Foundries Corp 302 People Ave Rockford Ill (Cast steel truck)
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich (Steel spoke)**
Webb Wheel Div of American Steel & Pumps Corp Lake Francis Dr Siloam Springs Ark (Spoke)

## WHEELS, Auto, Truck, and Bus (Disc)

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum for truck and buses)
**BUDD WHEEL CO 2450 Hunting Park Ave Philadelphia 32 Pa (Steel)**
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton 1 Ohio
**ELECTRIC WHEEL CO Div of Firestone Tire & Rubber Co 1120 N 28th St Quincy Ill**
Firestone Steel Products Co 1600 Firestone Parkway Akron 1 Ohio "Accu-Ride" (Bus and truck)
Hutchens & Son Metal Products Inc 2332 E Division St Springfield Mo "Hutch-Carr"
**KELSEY-HAYES CO 3600 Military Ave Detroit 32 Mich (Steel)**
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Spoksteel" (Steel)
Webb Wheel Div of American Steel & Pump Co Lake Francis Dr Siloam Springs Ark

## WHEELS, Buffing and Polishing

Armstrong Cork Co Industrial Div 7011 Imperial Ave Lancaster Pa (Cork)
Bacon Felt Co 11 Fifth St Taunton Mass "Paramount"
Bias Buff & Wheel Co Div Riegel Textile Corp Conover N C
Bruce Products Corp 500 N West St Howell Mich "Bruko" (Polishing)
Cleveland Container Co Abrasive Div 3571 W 62nd St Cleveland 2 Ohio (Polishing)
Codman Co F L & J C Plain St Rockland Mass "Champion" "Nonfray" "Blue Sisal"
Commonwealth Felt Co 74 Summer St Boston 9 Mass "Perfection"
Divine Bros Co 200 Seward Ave Utica 1 N Y
Dixon Inc William 32 E Kinney St Newark N J
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill
Hanson-Van Winkle-Munning Co Matawan N J "H-V W-M"
Matchless Metal Polish Co 340 W 49th Place Chicago Ill "Advance"
Merit Products Inc 4023 Irving Pl Culver City Calif "Grind-O-Flex"
Millers Falls Co 57 Wells St Greenfield Mass
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "PG"
Newark Brush Co Michigan Ave Kenilworth N J (Wire and fibre)
Patch Rubber Co 884 W Waterloo Rd Akron Ohio "Speed-Clean" (Tire buffing)
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Rhodes & Co James H 1026 W Jackson Blvd Chicago Ill
Salsbury Corp 1161 E Florence Ave Los Angeles 1 Calif "Salsbury Expand-O-Matic" (Buffing)
Schlegel Mfg Co 1555 Jefferson Rd Rochester 23 N Y
Williamsville Buff Co 200 Seward Ave Utica 1 N Y "Al" "Cutmaster" "Wilco"

**WHEELS, FELT—See Wheels, Buffing and Polishing**

## WHEELS, Grinding

Allison-Campbell Div of American Chain & Cable Co 929 Connecticut Ave Bridgeport 2 Conn "Allison" "Sever-All" (Cutting-off)
Bay State Abrasive Products Co 12 Union St Westboro Mass "Bayflex" "Saf-T-Cut"
Besly-Welles Corp 111 W Monroe St Chicago 3 Ill "Besly-Titan" (Abrasive)
Black & Decker Mfg Co 629 Pennsylvania Ave Towson 4 Md
Blanchard Machine Co 64 State St Cambridge 39 Mass
Boyar-Schultz Corp 2000 S 25th Ave Broadview Ill
Carborundum Co Buffalo Ave Niagara Falls N Y "Carborundum" "Aloxite" "MX" "Green Grit"
Chicago Wheel & Mfg Co 1101 W Monroe St Chicago 7 Ill
Cincinnati Milling Machine Co Products Div 4701 Marburg Ave Cincinnati 9 Ohio
Cleveland Industrial Tool Co Box 84 Chardon Ohio "Citco" (Abrasive)
deSanno & Son A P Wheatland St Phoenixville Pa "Radiac" "Por-Os-Way" "Por-O-Bor" "Husky"
Do All Co 254 N Laurel Ave Des Plaines Ill
Dumore Co 1300 17th St Racine Wis
Field Abrasive Mfg Co 1303 Stanley Ave Dayton 4 Ohio "Famco" (Abrasive)
Gardner Machine Co 444 E Gardner St Beloit Wis
Madison-Kipp Corp 201 Waubesa St Madison 10 Wis "Kipp"
Metal Carbides Corp 6001 Southern Blvd Youngstown 12 Ohio "Talide" (Diamond)
Mid-West Abrasive Co 510 S Washington St Owosso Mich (Abrasive)
Millers Falls Co Greenfield Mass
Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn "3M"
National Grinding Wheel Co North Tonawanda N Y "Natalon" "Natalite" "Nataflex" "Onalon" & "Onalite"
**NORTON CO 1 New Bond St Worcester 6 Mass "Crystolon" "Alundum"**
Peninsular Grinding Wheel Div Abrasive & Metal Products Co 729 Meldrum Ave Detroit 7 Mich
Precision Grinding Wheel Co 8301 Torresdale Ave (Holmesburg) Philadelphia 36 Pa "Hytens" "Lotens" "Tuf-Cut"
Prosser & Son Thomas Felter Bldg Tenafly N J (Silicon carbide aluminum oxide and diamond)
Raybestos-Manhattan Inc Manhattan Rubber Div 61 Willet St Passaic N J "Manhattan"
Simonds Abrasive Co Tacony & Fraley Sts Philadelphia 37 Pa "Borolon" "Electrolon" "Fibrex" "Simex" "Double XX"
Simonds Worden White Co 1101 Negley Place Dayton 7 Ohio "Dayton Safety"
Skil Corp 5033 Elston Ave Chicago 30 Ill "Perma-Grit" (Abrasive)
Snap-On Tools Corp 8046 28th Ave Kenosha Wis
Standard Diamond Tool Corp 71 W 47th St New York 36 N Y
Sterling Grinding Wheel Co Wall St Tiffin Ohio "Easymount" "Sterlith" "Sterbon"

Thor Power Tool Co 175 State St Aurora Ill
United States Rubber Co Rockefeller Center, 1230 Ave of the Americas New York 20 N Y
Wickman Mfg Co 10325 Capitol Ave Oak Park Detroit 37 Mich "Wickman" "Wickman-Neven" (Diamond abrasive)
Wilson Inc Thomas C 21-11 44th Ave Long Island City 1 N Y
Wissota Mfg Co 1301 S 3rd St Minneapolis Minn

## WHEELS, Rubber Tired or Steel (Industrial Truck)

**ELECTRIC WHEEL CO 1120 N 28th St Quincy Ill "EWC" (Steel)**

## WHEELS, Steering

Dryden Rubber Div Sheller Mfg Corp 1014 S Kildare Ave Chicago 24 Ill
Inland Mfg Div General Motors Corp 2727 Inland Ave Dayton 1 Ohio
Sheller Mfg Corp Steering Wheel Div S Bridge St Portland 1
United States Rubber Co Rockefeller Center, 1230 Ave of the Americas New York 20 N Y

## WHEELS, Tractor (Agricultural)

**FRENCH & HECHT DIV KELSEY-HAYES CO P O Box 690 Davenport Iowa**

## WHEELS, Trailer

Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa (Aluminum)
Bolling Wheel & Axle Div Anderson-Bolling Mfg Co P O Box 350 Grand Haven Mich (Independently rotating dual)
**BUDD CO 2450 Hunting Park Ave Philadelphia 32 Pa**
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton Ohio (Steel)
Dico Co 200 S W 16th St Des Moines 5 Iowa (Utility)
Draw-Tite Co Belleville Mich
Erie Malleable Iron Co Automotive Wheel Div 609 W 12th St Erie Pa (Dual pneumatic)
Firestone Steel Products Co 1600 Firestone Parkway Akron 1 Ohio "Accu-Ride" (Disc)
French & Hecht Div Kelsey-Hayes Co P O Box 690 Davenport Iowa
Geneva Metal Wheel Co 191 Factory Row Geneva Ohio
Gunite Foundries Corp 302 Peoples Ave Rockford Ill (Cast steel)
**KELSEY-HAYES CO 3000 Military Ave Detroit 32 Mich**
Motor Wheel Corp 735 E Saginaw St Lansing 3 Mich "Spoksteel" (Disc steel)
Permold Co 820 W Liberty St Medina Ohio (Aluminum)
Webb Wheel Div of American Steel & Pump Corp Lake Francis Dr Siloam Springs Ark (Spoke)

## WHEELS, Truck and Bus (Dual Mounting)

Bolling Wheel & Axle Div Anderson-Bolling Mfg Co PO Box 350 Grand Haven Mich (Independently rotating truck)
**BUDD CO 2450 Hunting Park Ave Philadelphia 32 Pa**
Dayton Steel Foundry Co 1366 Miami Chapel Rd Dayton Ohio (Truck)
Erie Malleable Iron Co Automotive Wheel Div 609 W 12th St Erie Pa (Truck)
**KELSEY-HAYES CO 3000 Military Ave Detroit Mich (Truck)**

**WHISTLES—See Horns**

## WICKING, Felt Lubricator

**WESTERN FELT WORKS 4115 W Ogden Ave Chicago 23 Ill**

**WINDINGS, ARMATURE—See Armatures**

**WINDINGS, FIELD COIL—See Coils, Field**

## WINDINGS, Ignition Coil

New York Coil Co 42-48 Second Ave Phoenixville Pa
R-B-M Div Essex Wire Corp Chestnut & Hanna St Logansport Ind

**WINDOW FRAMES, METAL (AUTO) — See Frames, Window, Metal Sash (Auto)**

**WINDOW REGULATORS — See Regulators, Window**

**WINDOW SWITCHES — See Switches, Seat and Window (Electric)**

**WINDOW WASHERS — See Washers, Windshield**

**WINDSHIELD FITTINGS—See Visors, Windshield; Wipers, Windshield**

**WINDSHIELD SEALING COMPOUNDS—See Compounds, Windshield Sealing**

## WINDSHIELDS

Ainsworth Mfg Co Div of Precasco Corp 7635 E Davison St Detroit 12 Mich (Truck)
Troy Sunshade Co Troy Ohio

**WINDSHIELD WASHERS — See Washers, Windshield**

## WIPERS, Windshield (Air)

**SPRAGUE DEVICES INC 500 Huron St Michigan City Ind "Air Push"**
Trico Products Corp 817 Washington St Buffalo 3 N Y (For trucks and busses)

## WIPERS, Windshield (Electric)

American Bosch Arma Corp Commercial Sales Div 3664 Main St Springfield 7 Mass "American Bosch Neverstall"
Delco Appliance Div General Motors Corp 391 Lyell Ave Rochester 1 N Y "Power Sweep"
Electric Autolite Co Toledo 1 Ohio "Autolite"

## WIPERS, Windshield (Vacuum)

Trico Products Corp 817 Washington St Buffalo 3 N Y

## WIRE, Armature Banding

Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa
Seneca Wire & Mfg Co Vine St Fostoria Ohio
Worcester Wire Div of National-Standard Co 70 James St Worcester Mass

**WIRE BELTING, FLEXIBLE — See Belting, Flexible Wire (Industrial)**

## WIRE, Nut

Youngstown Sheet & Tube Co P O Box 900 Youngstown 1 Ohio

## WIRE, Phosphor Bronze, Brass and Copper

Anaconda American Brass Co 414 Meadow St Waterbury 20 Conn "Anaconda" "Duraflex" (Phosphor bronze)
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn
Chicago Extruded Metals Co 1602 S 54th Ave Cicero 50 Ill (Brass)
Copperweld Steel Co Wire & Cable Div Glassport Pa (Copper covered steel bronze and copper)
Porter Co H K Riverside Alloy Metal Div Pavilion Ave Riverside N J "Riverside" (Phosphor bronze and Beryllium copper)
Roeblings Sons John A Div Colorado Fuel & Iron Corp 640 S Broad St Trenton 2 N J
Scovill Mfg Co Screw Products & Forging Div 99 Mill st Waterbury 20 Conn (Phosphor bronze and brass)
Titan Metal Mfg Co Bellefonte Pa
United Wire & Supply Corp 1497 Elmwood Ave Providence 7 R I (Brass and copper)

## WIRE, Steel

**AMERICAN STEEL & WIRE DIV U S STEEL CORP Rockefeller Bldg Cleveland 13 Ohio "Premier" (Stainless)**
Bethlehem Steel Co Bethlehem Pa (Spoke and spring)
Colorado Fuel & Iron Corp Wickwire Spencer Steel Div 575 Madison Ave New York 22 N Y "CF&I-Wickwire" (Spring)
Copperweld Steel Co Wire & Cable Div Glassport Pa "Alumaweld" (Aluminum covered)
Eaton Mfg Co Reliance Div 25 Charles Ave S E Massillon Ohio
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa (Spring)
**NATIONAL-STANDARD CO Eighth & Howard Sts Niles Mich (Spring and stainless)**
Page Steel & Wire Div American Chain & Cable Co P O Box 692 Monessen Pa (Spring)
Philadelphia Steel & Wire Corp Penn St & Belfield Ave Philadelphia 44 Pa
Pittsburgh Steel Co 1600 Grant Bldg Pittsburgh 30 Pa (Spoke)
**REPUBLIC STEEL CORP 1441 Republic Bldg Cleveland 1 Ohio (Spring)**
**ROEBLING'S SONS JOHN A DIV COLORADO FUEL & IRON CORP 640 S Broad St Trenton 2 N J "Roebling" (Spring; "Roegal" galvanized)**
Seneca Wire & Mfg Co Vine St Fostoria Ohio (Round and flat spring)
Superior Drawn Steel Co Monaca Pa

**WIRE STRIPPING MACHINES—See Machines, Wire Stripping**

**WIRE STRIPPING TOOLS—See Tools, Wire Stripping**

## WIRE, Tire

**NATIONAL-STANDARD CO Eighth & Howard Sts Niles Mich**
**ROEBLING'S SONS JOHN A DIV COLORADO FUEL & IRON CO 640 S Broad St Trenton 2 N J (Bead)**

## WIRE, Welding

(See also Rods, Welding)

**AIR REDUCTION SALES CO Socony-Mobil Bldg 150 E 42nd St N Y 17 N Y "Airomatic" (Steel)**
Alloy Rods Co W Market St York Pa "Wear-O-Matic"
All-State Welding Alloys Co 249 Ferris Ave White Plains N Y "Spoolarc"
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa
American Steel & Wire Co Rockefeller Bldg Cleveland 13 Ohio "Premier"
Ampco Metal Inc 1737 S 38th St Milwaukee 1 Wis "Ampco-Trode" "Phos-Trode"
Colonial Alloys Co Ridge Ave & Crawford St Philadelphia 29 Pa "Colweld"
Eutectic Welding Alloys Corp 40-40 172nd St Flushing 58 N Y "Eutec Rod" "Inter Tic"
Kaiser Aluminum Chemical Corp 1924 Broadway Oakland 12 Calif (Aluminum)
Linde Air Products Co 30 E 42nd St New York 17 N Y "Oxweld"
**METAL & THERMIT CORP Rahway N J "Murex" (Coated)**
Page Steel & Wire Div American Chain & Cable Co PO Box 692 Monessen Pa
Scully Steel Products Co 1319 Wabansia Ave Chicago Ill
Titchener & Co E H 67 Clinrton St Binghamton N Y

**WIRES, SPARK PLUG—See Cables (Sets)**

**WIRING CONDUIT—See Conduit, Flexible Car Wiring**

**WIRING HARNESS CONNECTORS—See Connectors, Wiring Harness**

**WIRING MANIFOLDS—See Conduit, Flexible Car Wiring**

**WIRING PRESSES—See Presses, Sheet Metal Working**

**WIRING SETS, IGNITION STARTING AND LIGHTING—See Cables (Sets)**

**WORK BENCHES—See Benches Work**

**WORMS and WORM GEARS—See Gears, Worm Drive (Truck)**

## WRENCHES, Portable Electric

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York 17 N Y "Hicycle" "Universal" (Impact)**

## WRENCHES, Portable Pneumatic

**CHICAGO PNEUMATIC TOOL CO 6 E 44th St New York N Y "CP" "Torkmaster" (Impact)**
**CLECO AIR TOOLS DIV OF REED ROLLER BIT CO 5125 Clinton Drive Houston 1 Tex**

## WRENCHES, Torque

**STURTEVANT CO P A Addison Ill**

**X-RAY MACHINES—See Machines, X-Ray**

**ZIPPERS—See Fasteners, Slide**

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Use this sheet for project planning and control chart for a plant-wide survey of major opportunities for improved operations.

# A.I. Purchase

| BELOW: Product Categories to check for your Improvement Program | Quality Control Analysis data Reported<br>. . . Report need for improvement to Quality Control Department. | |
|---|---|---|
| Abrasives | | |
| Industrial Proc. Equip. | | |
| Conveyors & Eqpt. | | |
| Dies | | |
| Electrical Equipment | | |
| Fixture Components | | |
| Gages | | |
| Hydraulic Equipment | | |
| Powered Hand Tools | | |
| Machine Components | | |
| Lubrication Equipment | | |
| Metals | | |
| Chemicals | | |
| Petroleum Products | | |
| Rubber & Plastic Mtl. | | |

# e Engineering and Product

| | Additional data requested from reliable sources | Improvement potential rated from trial & test | Impr tested conditio |
|---|---|---|---|
| | . . . Get facts from the advertisements and listings in the December 15 issue and from the P.I.P. data sheets. | . . . Itemize the Major Factors of improvement sought. | . . . Check samples performance on rate |
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# roduction Improvement Pl

| | Improved product tested under shop conditions<br>. . . Check samples for desired performance on rated factors. | Engineering data compiled for check and comparison<br>. . . Compare performance data for old and new product items. | Purc data f for futu<br>. . . Prepare compl purchase-engineeri |
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# lanning Service

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**a fully compiled**
**uture use**

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neering summary.

**Recommendations:**

Insert below, dates and schedules for initial use of improved products and equipment.

| | | |
|---|---|---|
| Metals | | |
| Chemicals | | |
| Petroleum Products | | |
| Rubber & Plastic Mtl. | | |
| Paper & Paper Products | | |
| Tex • Leather Mfg. Mtl. | | |
| Paint & Painting Eqpt. | | |
| Electrical Materials | | |
| Mtls • Proc. For Tooling | | |
| Proc. Mtls. Casting & Steel | | |
| Pneumatic Equipment | | |
| Process Controls | | |
| Automation Equipment | | |
| Safety Eqpt. & Materials | | |
| Machine Tools | | |
| Hand Tools | | |
| Welding Equip. & Supplies | | |
| Powered Ind. Trucks | | |
| Fasteners & Eqpt. | | |
| Furnaces • Heat Treat. Equip. | | |

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ASSISTANT EDITOR

### Press Booklet 1

A new 20-page bulletin describing a complete line of open back inclinable presses, in 16 through 75 ton capacities, has been issued. Press construction, slide construction, inclining mechanisms and lubrication arrangements are covered completely in this bulletin. There is also a detailed description of Minster's air friction clutch and electrical controls. Complete specifications and dimensions are listed in the back of the book. *The Minster Machine Co.*

### Stamp Data 2

A 12 page condensed pocket style catalog is complete with full price list upon steel stamps and tools, dies, standard marking machines, name plate stamping machines, hand pneumatic and motor driven metal marking machines, standard models and hot stamping presses and machines for plastics marking. Printing machines for product marking, signs, name plates, tablets, inks, roll leaf and all supplies. The most complete condensed marking catalog ever provided with complete up-to-date net price list to manufacturers. *The Acromark Co.*

### Measurement Systems 3

A 4-page bulletin describes the operation and selection of a self-generating 3-phase electric speed measurement system.

The bulletin is divided into four component part sections . . . electric tachometer generators, electric tachometer indicators, explosion-proof housings and electro-mechanical vibrators. Emphasis is placed upon the accurate calibration of electrical tachometer indicators with 6 in. dials (66 in. of scale) and 3 in. dials (33 in. of scale) for specified drive ratios. An easy-to-read scale chart in tabular form makes it simple to determine the rpm range for a specific drive ratio from 35-35,000 rpm. *Meriam Instrument Co.*

### Radial Drill 4

A new Bickford 9 in. radial drill, designed to speed production and increase accuracy on a wide range of drilling, boring, and tapping operations, is described in Catalog No. R-9. The new 16-page booklet gives complete information on the design features, operating advantages, capacities, and specifications of the new 5-hp machine. *Giddings & Lewis Machine Tool Co.*

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**By C. J. Kelly**
ASSISTANT EDITOR

### Projection Welding 5

New 20-page brochure "Projection Welding Low Carbon Steel with Embossed Projections" gives detailed information on projection welding techniques, projection forming tools, welding electrodes and joint design.

Projection designs and welding techniques are found to vary with the thickness of the steel. Specific recommendations cover welding of projections embossed in thicknesses from 0.011 to 0.245 in. Macrophotos trace the development of a projection weld under different conditions. Drawings show design of tools for forming the recommended projection shapes for best production results. Special electrode and tool designs are described to best accept commercial variables normally present in mass production. *The Taylor Winfield Corp.*

### Maintenance 6

An attractive new, easy-to-use, pocket-size index of Industrial Maintenance Products is entitled, "Technical Data Sheet 13, an index to solving maintenance problems." Seventy-eight maintenance products are included. *Fine Organics.*

### Connector Line 7

A two-page product information bulletin has been published to describe a new line of multiple circuit connectors. Photographs and a general description of the new connectors are given, and potential applications in the electrical, electronic and power equipment fields are discussed. Features of the brass contacts, each of which require only 2-5 pounds insertion and extraction force, are listed on the front page of the bulletin. Features of the nylon housing are also enumerated. Specification data is complemented by dimensional line drawings. *AMP, Inc.*

### Materials Handling 8

A new issue of a booklet titled "Engineering and Application Data" contains helpful up-to-date information for those interested in overhead materials handling. Various types of carriers, cranes, tractors, track switches, grabs, electrification are described. Detailed studies of track design, peening and stresses are given. A large number of photographs of a wide variety of installations are also featured. *Cleveland Tramrail Div., The Cleveland Crane & Engineering Co.*

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## Selective Plating 9

An 8-page booklet lists varied engineering applications of a new, high-speed selective plating process. In addition to discussing problems solved by the new method, the brochure lists available equipment, techniques, and results achieved. It also has a one-page question-and-answer section for a quick overall idea of process capabilities. *Selectrons, Inc.*

## Chemical Cleaner 10

A new type of low-cost Metal Parts Chemical Cleaner is described in literature available free from PALL Corporation. The literature shows a photograph of the cleaner and also shows an exploded view with all basic parts noted. PALL-Clean solutions, which are capable of finishing stainless steel, Monel, nickel and aluminum surfaces to high levels of brightness and cleanliness, are described. *Pall Corp.*

## Protective Coatings 11

The solution to a wide variety of corrosion and deterioration problems is presented in a new 8-page bulletin on Cold-Applied Protective Coatings. In addition to covering the properties and specification data on nine major Bitumastic products, the brochure lists scores of typical installations requiring corrosion protection along with the recommended coating to assure lasting protection. *Koppers Co., Inc.*

## Shape-Cutting 12

Intricate metal parts can be easily reproduced from simple pencil sketches on ordinary paper with a new, automated flame-cutting machine described in a fully illustrated 8-page booklet now available from *Linde Co., Div. of Union Carbide Corp.*

## Lift Truck Booklet 13

The place of the heavy duty industrial lift truck in industry is pictorially described in a new 12-page booklet. Entitled "Heavy Duty Trucks Facts and Factors," it is the fourth of a series of facts and factors booklets designed to show the proper uses of industrial lift trucks and their versatility in a wide variety of industries. *Automatic Transportation Co.*

## Lectrosonic Tubing 14

Bulletin T435 presents a new idea for hydraulic line applications. Numerous illustrations and specification information are shown along with a flow rate chart that also lists tubing diameters, wall thicknesses and operating pressures. The different types of tubes, pipes, extrusions, rings and welding flanges and fittings are also discussed. *The Babcock & Wilcox Co.*

## Tetraseal Data 15

A 12 page brochure presenting the story of Tetraseals, designed for direct O-ring substitution, size for size from 3/16 to 15 in. ID is now available. Included are line drawings, illustrations, technical information in table form. *Goshen Rubber Co., Inc.*

## Fastener Guide 16

Important questions concerning stainless fasteners are answered in a six page folder. It reviews the main features of the austenitic stainless family (200 and 300 series). There are 19 questions in the folder. *Standard Pressed Steel Co.*

## Gas Turbine 17

New model 305-S single shaft gas turbine for mechanical and generator drive is presented in Bulletin 186. Important advantages such as simplicity, reliability, compactness and low first cost of this 9000 hp unit are fully discussed. A cutaway cross section plus detailed photographs highlight all important design features. The catalog concludes with a discussion of applications for this unit including compressor, pump and generator drive as well as process integration. Complete dimensions and specifications are also included. *Clark Bros. Co., Div. of Dresser Industries, Inc.*

## Oil Data 18

A booklet "Sunoco Petroleum Products for Automotive and Off-The-Road Equipment" is now available. It gives descriptions and suggested applications for the company's complete line of diesel and gasoline motor oils, gear lubricants, transmission fluids, and greases. *Sun Oil Co., Industrial Products Dept.*

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**By C. J. Kelly**
ASSISTANT EDITOR

### Welded Steel Tubing 19

Weight computations for welded steel tubing are easily obtained from tables in a new brochure. Tables in the 16-page brochure give dimensions and weight per foot for round mechanical tubing up to 10 in. square and rectangular tubing up to 5 in., and pressure tubing up to 5 in. A full-page table gives decimal equivalents for fractional parts of a pipe foot. Another presents diameters and weights for pipe sizes (plain ends). *Electric Weld Tube Div., Jones & Laughlin Steel Corp.*

### Box Furnaces 20

Bulletin GED-4179, four pages, describes GE's new box furnaces without cooling chamber with ribbon or silicon carbide resistors for operation in heat treating, tool rooms, heat treat department, laboratories, or pilot operations. Chart and diagrams show furnace dimensions and available sizes. Control panel is also pictured along with cutaway drawings showing furnace construction features.

Text explains when to use ribbon or silicon carbide resistors and discusses bonus features of the furnace including heavily insulated doors, self-contained door mechanism and throat heating unit with ribbon resistor furnaces. *General Electric Co.*

### Centrifugal Pump Selection Catalog 21

A new 12-page selection catalog for users of centrifugal pumps has been published. Included in this condensed circular are charts showing the recommended temperature and pressure ranges for 10 classifications of Dean Pumps—from minus 350 to plus 1000 deg. F., and up to 1000 psig. Illustrations, brief descriptions and specifications are shown for each. *Dean Brothers Pumps, Inc.*

### Adhesives Selection

A thorough discussion of the selection of adhesives, bonding techniques, testing methods and a glossary of adhesive terms is contained in a new engineering bulletin. Titled bulletin No. 701, it also includes a discussion of the characteristics of principal R/M Ray-Bond-adhesives. A useful table in the bulletin lists the most common causes of bond failure and recommends remedies for such failures. The glossary of adhesives terms used in discussing uses and properties of adhesives is complete and covers terminology important to research, design and operating personnel. *Please write on your company letterhead to: Jerome W. Brush, Jr., Adhesives Department, Raybestos-Manhattan, Inc., Bridgeport, Conn.*

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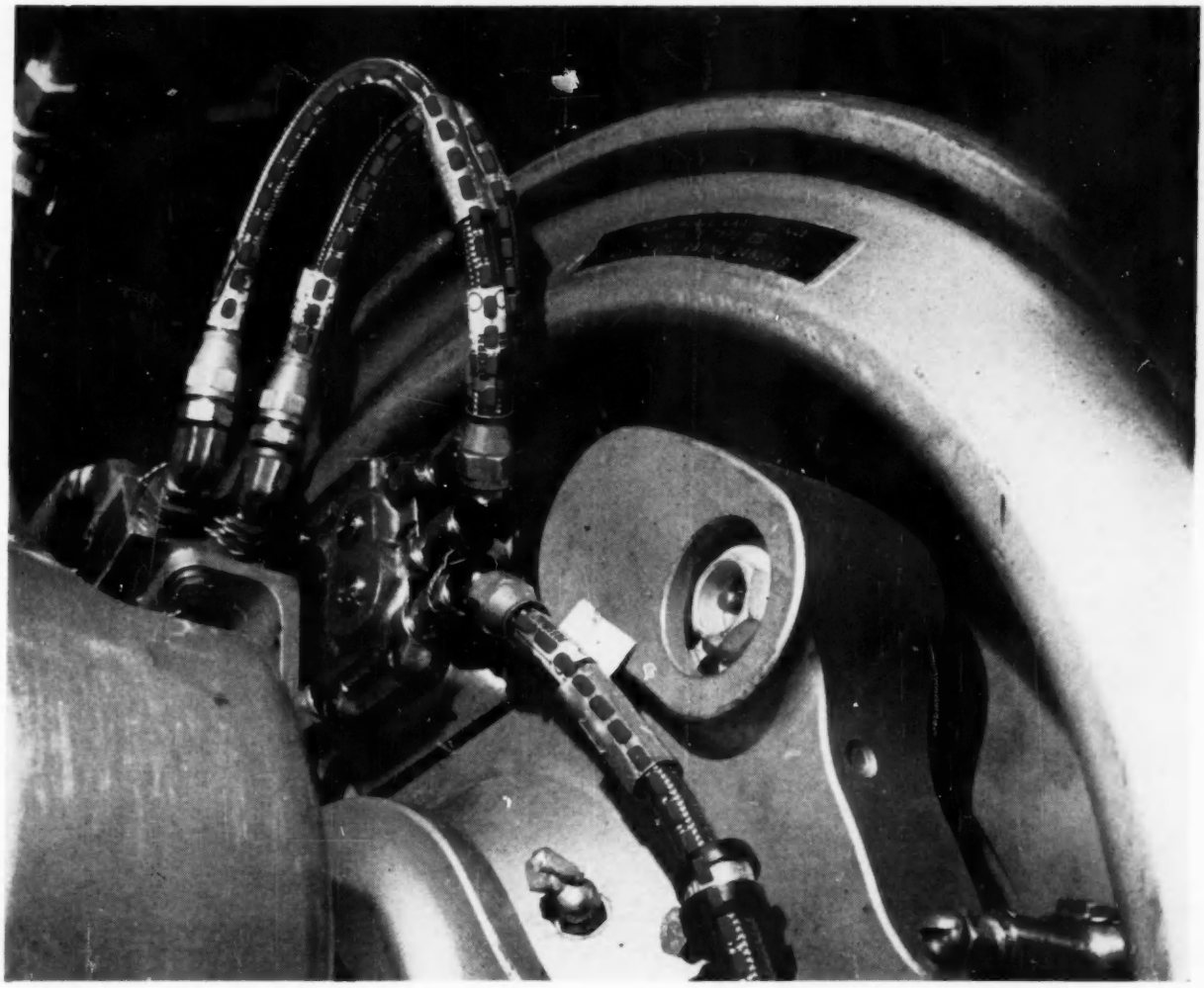

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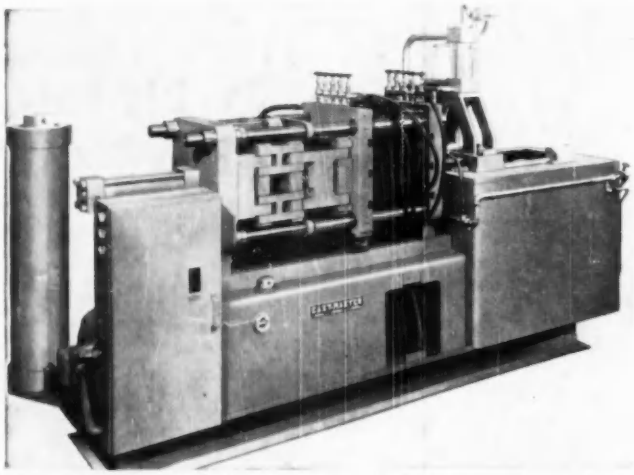

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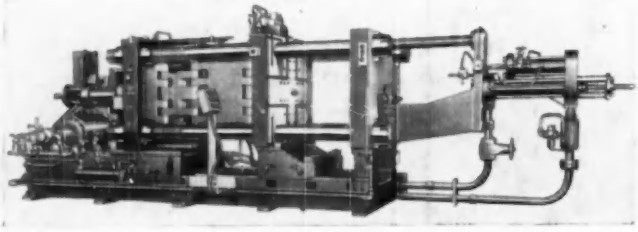

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